

HETATM 1694	MG	MG A 901	3.459	24.042	14.250	1.00	18.72	MG
HETATM 1695	MG	MG A 902	1.479	21.539	12.381	1.00	15.55	MG
HETATM 1696	P	PO4 A 802	0.207	24.583	13.067	1.00	18.45	P
HETATM 1697	O1	PO4 A 802	-0.663	25.230	14.078	1.00	16.95	O
HETATM 1698	O2	PO4 A 802	1.731	24.753	13.527	1.00	15.69	O
HETATM 1699	O3	PO4 A 802	-0.039	23.079	12.979	1.00	17.28	O
HETATM 1700	O4	PO4 A 802	0.043	25.201	11.509	1.00	17.12	O
HETATM 1701	PB	ADP A 801	3.880	23.194	11.076	1.00	14.59	P
HETATM 1702	O1B	ADP A 801	4.099	24.264	10.092	1.00	14.00	O
HETATM 1703	O2B	ADP A 801	4.352	23.449	12.564	1.00	13.56	O
HETATM 1704	O3B	ADP A 801	2.529	22.632	11.213	1.00	14.66	O
HETATM 1705	PA	ADP A 801	5.835	20.961	11.743	1.00	14.57	P
HETATM 1706	O1A	ADP A 801	4.894	20.349	12.744	1.00	13.74	O
HETATM 1707	O2A	ADP A 801	7.099	21.542	12.257	1.00	12.72	O
HETATM 1708	O3A	ADP A 801	4.940	21.981	10.709	1.00	14.53	O
HETATM 1709	O5'	ADP A 801	6.265	19.846	10.553	1.00	14.03	O
HETATM 1710	C5'	ADP A 801	5.202	19.193	9.775	1.00	14.53	C
HETATM 1711	C4'	ADP A 801	5.453	17.695	9.626	1.00	16.00	C
HETATM 1712	O4'	ADP A 801	6.643	17.498	8.843	1.00	15.51	O
HETATM 1713	C3'	ADP A 801	5.710	17.001	10.965	1.00	15.95	C
HETATM 1714	O3'	ADP A 801	5.310	15.607	10.946	1.00	17.82	O
HETATM 1715	C2'	ADP A 801	7.229	17.111	11.164	1.00	16.12	C
HETATM 1716	O2'	ADP A 801	7.696	16.073	12.080	1.00	16.15	O
HETATM 1717	C1'	ADP A 801	7.692	16.920	9.712	1.00	15.29	C
HETATM 1718	N9	ADP A 801	8.999	17.689	9.543	1.00	14.43	N
HETATM 1719	C8	ADP A 801	9.087	19.022	9.484	1.00	13.74	C
HETATM 1720	N7	ADP A 801	10.346	19.362	9.240	1.00	14.80	N
HETATM 1721	C5	ADP A 801	11.038	18.261	8.976	1.00	13.62	C
HETATM 1722	C6	ADP A 801	12.377	18.034	8.658	1.00	13.62	C
HETATM 1723	N6	ADP A 801	13.165	19.046	8.298	1.00	11.79	N
HETATM 1724	N1	ADP A 801	12.677	16.788	8.229	1.00	12.68	N
HETATM 1725	C2	ADP A 801	11.736	15.851	8.132	1.00	13.66	C
HETATM 1726	N3	ADP A 801	10.472	15.988	8.543	1.00	12.99	N
HETATM 1727	C4	ADP A 801	10.095	17.246	8.870	1.00	14.72	C
HETATM 1728	CN	DTB A 803	-3.145	22.488	13.006	1.00	24.58	C
HETATM 1729	O	DTB A 803	-2.272	21.759	13.494	1.00	24.83	O
HETATM 1730	N2	DTB A 803	-3.129	23.053	11.759	1.00	23.52	N
HETATM 1731	CR	DTB A 803	-4.380	23.743	11.510	1.00	23.46	C
HETATM 1732	CS	DTB A 803	-4.777	24.040	13.008	1.00	23.47	C
HETATM 1733	N1	DTB A 803	-4.275	22.845	13.639	1.00	23.94	N
HETATM 1734	CT	DTB A 803	-4.315	25.355	13.696	1.00	23.72	C
HETATM 1735	CE	DTB A 803	-4.217	25.070	10.679	1.00	21.81	C
HETATM 1736	CD	DTB A 803	-5.578	25.692	10.317	1.00	21.30	C
HETATM 1737	CG	DTB A 803	-5.641	26.784	9.267	1.00	19.93	C
HETATM 1738	CB	DTB A 803	-6.902	27.604	9.422	1.00	19.64	C
HETATM 1739	CA	DTB A 803	-6.964	28.689	8.318	1.00	17.35	C
HETATM 1740	C	DTB A 803	-6.712	28.188	6.829	1.00	16.49	C
HETATM 1741	OI1	DTB A 803	-7.365	27.219	6.380	1.00	15.56	O
HETATM 1742	OI2	DTB A 803	-5.799	28.743	6.205	1.00	14.58	O

HETATM 1743	O	HOH A 301	2.054	28.220	-4.445	1.00	11.19	O
HETATM 1744	O	HOH A 302	14.931	19.498	-2.733	1.00	29.71	O
HETATM 1745	O	HOH A 304	12.450	19.973	0.734	1.00	20.75	O
HETATM 1746	O	HOH A 306	13.939	13.332	-5.493	1.00	20.82	O
HETATM 1747	O	HOH A 307	20.001	18.604	0.071	1.00	31.01	O
HETATM 1748	O	HOH A 308	18.725	16.420	3.684	1.00	24.75	O
HETATM 1749	O	HOH A 309	21.338	22.144	5.995	1.00	20.96	O
HETATM 1750	O	HOH A 310	22.099	26.125	7.784	1.00	18.18	O
HETATM 1751	O	HOH A 311	21.788	28.067	5.237	1.00	19.21	O
HETATM 1752	O	HOH A 314	22.692	32.204	1.139	1.00	15.22	O
HETATM 1753	O	HOH A 315	17.154	36.043	1.534	1.00	10.04	O
HETATM 1754	O	HOH A 316	22.112	34.607	5.368	1.00	15.13	O
HETATM 1755	O	HOH A 317	23.149	28.955	9.071	1.00	22.00	O
HETATM 1756	O	HOH A 321	23.930	30.826	16.273	1.00	19.49	O
HETATM 1757	O	HOH A 322	25.814	30.015	20.051	1.00	36.73	O
HETATM 1758	O	HOH A 323	23.715	27.472	16.052	1.00	24.90	O
HETATM 1759	O	HOH A 325	21.058	21.593	19.336	1.00	22.18	O
HETATM 1760	O	HOH A 326	20.940	24.107	22.605	1.00	21.55	O
HETATM 1761	O	HOH A 327	16.056	26.717	24.268	1.00	16.35	O
HETATM 1762	O	HOH A 329	9.724	24.257	29.548	1.00	23.36	O
HETATM 1763	O	HOH A 330	-0.599	15.750	30.847	1.00	25.23	O
HETATM 1764	O	HOH A 331	3.173	21.384	32.614	1.00	23.56	O
HETATM 1765	O	HOH A 332	-0.324	24.157	33.019	1.00	16.54	O
HETATM 1766	O	HOH A 338	-12.623	33.588	19.081	1.00	14.75	O
HETATM 1767	O	HOH A 339	-15.178	32.569	15.765	1.00	21.69	O
HETATM 1768	O	HOH A 343	-10.847	23.663	24.745	1.00	29.32	O
HETATM 1769	O	HOH A 344	-10.065	26.059	31.842	1.00	19.89	O
HETATM 1770	O	HOH A 345	-16.098	30.769	27.628	1.00	19.19	O
HETATM 1771	O	HOH A 348	-11.092	36.582	10.766	1.00	20.30	O
HETATM 1772	O	HOH A 349	-11.303	39.105	9.987	1.00	24.57	O
HETATM 1773	O	HOH A 350	-9.440	41.367	11.171	1.00	39.38	O
HETATM 1774	O	HOH A 353	1.481	32.371	5.230	1.00	9.73	O
HETATM 1775	O	HOH A 356	-1.251	41.463	7.493	1.00	11.78	O
HETATM 1776	O	HOH A 357	-0.676	43.268	5.123	1.00	19.08	O
HETATM 1777	O	HOH A 358	2.517	48.069	11.771	1.00	24.16	O
HETATM 1778	O	HOH A 359	0.957	43.688	26.964	1.00	26.77	O
HETATM 1779	O	HOH A 360	-3.450	41.960	28.141	1.00	20.29	O
HETATM 1780	O	HOH A 361	-5.125	36.016	31.297	1.00	20.23	O
HETATM 1781	O	HOH A 362	1.843	15.892	28.429	1.00	25.00	O
HETATM 1782	O	HOH A 363	20.590	35.191	29.374	1.00	13.77	O
HETATM 1783	O	HOH A 366	0.504	32.816	31.458	1.00	14.99	O
HETATM 1784	O	HOH A 367	-0.903	35.249	31.311	1.00	13.40	O
HETATM 1785	O	HOH A 368	-3.871	37.531	33.406	1.00	31.01	O
HETATM 1786	O	HOH A 369	-3.178	35.013	29.675	1.00	13.56	O
HETATM 1787	O	HOH A 370	2.160	32.664	29.426	1.00	13.76	O
HETATM 1788	O	HOH A 371	-0.220	29.936	18.493	1.00	8.06	O
HETATM 1789	O	HOH A 372	-1.354	17.626	19.192	1.00	16.44	O
HETATM 1790	O	HOH A 373	5.810	17.230	20.907	1.00	32.64	O
HETATM 1791	O	HOH A 376	-12.108	19.077	11.260	1.00	37.18	O

HETATM 1792	O	HOH A 379	20.824	18.040	-7.705	1.00	20.33	O
HETATM 1793	O	HOH A 380	21.555	27.449	-3.872	1.00	20.44	O
HETATM 1794	O	HOH A 381	11.036	43.766	6.905	1.00	23.38	O
HETATM 1795	O	HOH A 383	17.123	40.253	11.323	1.00	16.47	O
HETATM 1796	O	HOH A 385	18.381	36.578	18.515	1.00	20.25	O
HETATM 1797	O	HOH A 386	13.177	40.793	18.795	1.00	25.14	O
HETATM 1798	O	HOH A 388	-4.070	42.777	23.042	1.00	17.99	O
HETATM 1799	O	HOH A 390	27.032	30.928	25.147	1.00	32.29	O
HETATM 1800	O	HOH A 393	14.230	20.800	15.388	1.00	14.10	O
HETATM 1801	O	HOH A 396	21.996	34.374	2.553	1.00	12.40	O
HETATM 1802	O	HOH A 398	-16.754	32.436	10.069	1.00	25.35	O
HETATM 1803	O	HOH A 400	-8.440	28.285	27.365	1.00	33.29	O
HETATM 1804	O	HOH A 402	17.768	28.956	31.288	1.00	28.34	O
HETATM 1805	O	HOH A 404	-0.245	16.076	22.595	1.00	24.75	O
HETATM 1806	O	HOH A 406	10.370	42.701	28.648	1.00	51.38	O
HETATM 1807	O	HOH A 407	26.341	34.182	28.488	1.00	63.10	O
HETATM 1808	O	HOH A 412	-0.238	35.376	11.816	1.00	15.16	O
HETATM 1809	O	HOH A 416	19.762	29.245	-9.785	1.00	42.92	O
HETATM 1810	O	HOH A 421	6.232	25.929	1.562	1.00	18.41	O
HETATM 1811	O	HOH A 423	8.594	47.121	11.902	1.00	30.18	O
HETATM 1812	O	HOH A 425	16.607	22.573	23.899	1.00	45.21	O
HETATM 1813	O	HOH A 426	-0.356	32.538	12.434	1.00	13.49	O
HETATM 1814	O	HOH A 427	16.329	7.224	19.931	1.00	33.18	O
HETATM 1815	O	HOH A 430	19.636	36.051	2.720	1.00	13.78	O
HETATM 1816	O	HOH A 432	26.892	25.555	6.999	1.00	80.27	O
HETATM 1817	O	HOH A 433	-2.831	23.493	32.557	1.00	31.55	O
HETATM 1818	O	HOH A 434	-0.736	42.883	28.984	1.00	25.70	O
HETATM 1819	O	HOH A 436	27.134	32.887	14.651	1.00	31.27	O
HETATM 1820	O	HOH A 438	26.513	19.072	22.521	1.00	36.25	O
HETATM 1821	O	HOH A 440	23.674	29.679	18.700	1.00	16.12	O
HETATM 1822	O	HOH A 441	3.231	24.393	-1.962	1.00	23.71	O
HETATM 1823	O	HOH A 444	2.719	21.314	14.069	1.00	22.15	O
HETATM 1824	O	HOH A 446	-14.815	40.166	9.438	1.00	26.32	O
HETATM 1825	O	HOH A 447	4.059	16.717	29.241	1.00	35.40	O
HETATM 1826	O	HOH A 448	2.461	19.567	11.978	1.00	14.89	O
HETATM 1827	O	HOH A 449	27.047	28.802	-6.856	1.00	66.68	O
HETATM 1828	O	HOH A 457	-13.523	45.366	17.216	1.00	22.66	O
HETATM 1829	O	HOH A 460	7.762	42.120	29.387	1.00	27.71	O
HETATM 1830	O	HOH A 463	-11.887	39.741	21.880	1.00	31.62	O
HETATM 1831	O	HOH A 466	21.006	23.910	-0.005	1.00	24.73	O
HETATM 1832	O	HOH A 470	12.559	20.878	-5.705	1.00	60.95	O
HETATM 1833	O	HOH A 474	18.016	27.367	-14.221	1.00	27.10	O
HETATM 1834	O	HOH A 477	1.983	23.994	1.515	1.00	41.73	O
HETATM 1835	O	HOH A 481	23.005	24.491	24.220	1.00	18.79	O
HETATM 1836	O	HOH A 486	-9.438	13.437	23.060	1.00	39.35	O
HETATM 1837	O	HOH A 492	1.258	33.157	34.098	0.50	11.74	O
HETATM 1838	O	HOH A 493	-4.955	30.393	29.718	1.00	62.16	O
HETATM 1839	O	HOH A 498	-12.147	37.527	20.238	1.00	40.82	O
HETATM 1840	O	HOH A 499	0.805	38.907	32.104	1.00	15.25	O

HETATM 1841	O	HOH A 500	-3.678	32.382	30.374	1.00	15.72	O
HETATM 1842	O	HOH A 504	6.643	40.855	31.629	1.00	22.42	O
HETATM 1843	O	HOH A 505	3.204	39.474	33.415	1.00	28.50	O
HETATM 1844	O	HOH A 506	3.964	32.316	34.762	1.00	21.78	O
HETATM 1845	O	HOH A 507	-0.720	36.920	33.465	1.00	16.12	O
HETATM 1846	O	HOH A 512	-7.313	46.035	14.959	1.00	58.13	O
HETATM 1847	O	HOH A 513	-2.003	43.675	9.789	1.00	25.03	O
HETATM 1848	O	HOH A 514	7.125	46.427	14.015	1.00	28.87	O
HETATM 1849	O	HOH A 516	-9.646	39.656	20.672	1.00	12.71	O
HETATM 1850	O	HOH A 518	-5.939	38.588	30.307	1.00	25.17	O
HETATM 1851	O	HOH A 521	-2.001	46.059	8.663	1.00	23.69	O
HETATM 1852	O	HOH A 522	-0.412	48.134	9.962	1.00	39.73	O
HETATM 1853	O	HOH A 523	7.641	43.883	13.184	1.00	13.48	O
HETATM 1854	O	HOH A 524	10.968	44.704	14.414	1.00	51.17	O
HETATM 1855	O	HOH A 526	7.387	47.044	6.361	1.00	27.17	O
HETATM 1856	O	HOH A 530	20.089	20.921	3.741	1.00	23.14	O
HETATM 1857	O	HOH A 531	17.710	18.112	2.141	1.00	28.14	O
HETATM 1858	O	HOH A 532	15.507	18.456	0.453	1.00	21.25	O
HETATM 1859	O	HOH A 533	21.189	21.021	1.240	1.00	32.36	O
HETATM 1860	O	HOH A 535	16.977	42.412	5.190	1.00	37.04	O
HETATM 1861	O	HOH A 536	12.365	14.796	-3.262	1.00	30.41	O
HETATM 1862	O	HOH A 538	14.329	15.169	-8.301	1.00	24.33	O
HETATM 1863	O	HOH A 543	17.605	29.387	-12.573	1.00	23.21	O
HETATM 1864	O	HOH A 544	17.428	30.094	-9.820	1.00	36.42	O
HETATM 1865	O	HOH A 546	21.031	30.669	-0.427	1.00	16.41	O
HETATM 1866	O	HOH A 547	21.899	30.613	-2.755	1.00	29.24	O
HETATM 1867	O	HOH A 548	14.727	40.342	-1.656	1.00	36.55	O
HETATM 1868	O	HOH A 551	21.476	26.699	2.899	1.00	24.00	O
HETATM 1869	O	HOH A 560	19.237	22.622	23.646	1.00	34.02	O
HETATM 1870	O	HOH A 561	20.865	37.434	17.274	1.00	32.77	O
HETATM 1871	O	HOH A 569	24.004	39.507	19.826	1.00	41.68	O
HETATM 1872	O	HOH A 571	24.312	36.321	20.469	1.00	32.58	O
HETATM 1873	O	HOH A 574	-2.690	10.870	26.419	1.00	45.73	O
HETATM 1874	O	HOH A 580	-9.646	20.950	30.059	1.00	29.07	O
HETATM 1875	O	HOH A 586	4.061	18.977	16.930	1.00	17.94	O
HETATM 1876	O	HOH A 587	3.447	19.366	29.680	1.00	24.29	O
HETATM 1877	O	HOH A 589	11.223	19.619	31.832	1.00	39.59	O
HETATM 1878	O	HOH A 590	13.612	26.875	34.935	1.00	26.02	O
HETATM 1879	O	HOH A 595	-4.391	25.268	27.802	1.00	23.56	O
HETATM 1880	O	HOH A 596	-11.988	32.048	26.456	1.00	13.05	O
HETATM 1881	O	HOH A 597	-10.457	29.781	27.833	1.00	19.46	O
HETATM 1882	O	HOH A 598	-10.294	33.975	27.177	1.00	20.74	O
HETATM 1883	O	HOH A 600	-14.883	18.739	17.822	1.00	33.78	O
HETATM 1884	O	HOH A 602	-19.980	22.775	22.011	1.00	33.64	O
HETATM 1885	O	HOH A 607	-9.315	41.732	19.272	1.00	26.90	O
HETATM 1886	O	HOH A 610	15.787	36.503	32.606	1.00	39.87	O
HETATM 1887	O	HOH A 611	-6.010	40.395	9.185	1.00	23.36	O
HETATM 1888	O	HOH A 612	-12.704	39.048	17.977	1.00	15.55	O
HETATM 1889	O	HOH A 614	-13.021	41.910	20.762	0.70	21.69	O

HETATM 1890	O	HOH A 615	7.593	19.566	-4.327	1.00	29.89	O
HETATM 1891	O	HOH A 616	5.103	20.715	3.686	1.00	37.55	O
HETATM 1892	O	HOH A 622	11.984	16.322	-8.147	1.00	34.07	O
HETATM 1893	O	HOH A 624	21.159	28.083	-8.065	1.00	40.11	O
HETATM 1894	O	HOH A 626	19.830	35.748	-7.372	1.00	22.29	O
HETATM 1895	O	HOH A 652	1.794	31.247	11.243	1.00	10.30	O
HETATM 1896	O	HOH A 653	20.142	18.903	-2.666	1.00	20.16	O
HETATM 1897	O	HOH A 655	3.294	28.547	-7.171	1.00	22.88	O
HETATM 1898	O	HOH A 656	18.883	16.130	-15.638	1.00	30.08	O
HETATM 1899	O	HOH A 661	3.330	49.329	-0.713	1.00	78.95	O
HETATM 1900	O	HOH A 663	12.788	35.424	-9.491	1.00	27.26	O
HETATM 1901	O	HOH A 664	-14.967	38.535	18.713	1.00	27.63	O
HETATM 1902	O	HOH A 671	28.749	19.741	18.889	1.00	48.57	O
HETATM 1903	O	HOH A 675	25.147	34.407	5.659	1.00	44.08	O
HETATM 1904	O	HOH A 676	-14.574	35.652	19.791	1.00	26.32	O
HETATM 1905	O	HOH A 679	27.836	17.429	0.148	1.00	38.42	O
HETATM 1906	O	HOH A 684	7.477	21.246	33.452	1.00	48.42	O
HETATM 1907	O	HOH A 685	5.487	14.528	27.202	1.00	26.63	O
HETATM 1908	O	HOH A 688	0.215	43.805	-1.145	1.00	48.45	O
HETATM 1909	O	HOH A 689	-10.664	31.003	30.307	1.00	27.61	O
HETATM 1910	O	HOH A 691	24.929	33.449	-0.617	1.00	43.67	O
HETATM 1911	O	HOH A 693	4.579	42.206	33.326	1.00	21.28	O
HETATM 1912	O	HOH A 694	8.611	14.205	21.499	1.00	29.03	O
HETATM 1913	O	HOH A 700	-8.514	14.828	20.602	1.00	24.76	O
HETATM 1914	O	HOH A 703	-11.755	41.523	18.452	1.00	20.81	O
HETATM 1915	O	HOH A 704	-2.496	47.266	14.984	1.00	35.19	O
HETATM 1916	O	HOH A 706	-8.207	40.928	7.634	1.00	41.32	O
HETATM 1917	O	HOH A 707	-7.556	45.370	29.557	1.00	31.62	O
HETATM 1918	O	HOH A 708	11.511	38.912	28.196	1.00	32.99	O
HETATM 1919	O	HOH A 709	3.815	16.739	14.747	1.00	36.79	O
HETATM 1920	O	HOH A 714	5.474	18.584	14.466	1.00	17.78	O
HETATM 1921	O	HOH A 717	-0.782	22.051	16.121	1.00	22.13	O
HETATM 1922	O	HOH A 718	2.227	16.993	11.225	1.00	47.70	O
HETATM 1923	O	HOH A 719	-2.231	24.447	16.268	1.00	14.90	O
HETATM 1924	O	HOH A 749	0.331	20.310	13.581	1.00	19.38	O
HETATM 1925	O	HOH A 750	-0.022	20.923	10.630	1.00	19.26	O
HETATM 1926	O	HOH A 751	-15.829	39.077	16.614	1.00	20.86	O
HETATM 1927	O	HOH A 752	-12.401	20.515	19.755	1.00	28.85	O
HETATM 1928	O	HOH A 753	26.401	34.717	22.377	1.00	23.87	O
HETATM 1929	O	HOH A 754	4.073	25.929	0.055	1.00	29.08	O
HETATM 1930	O	HOH A 755	-3.836	44.918	14.674	1.00	27.26	O
HETATM 1931	O	HOH A 756	-5.518	22.521	28.075	1.00	32.51	O
HETATM 1932	O	HOH A 757	5.674	28.593	33.776	1.00	28.91	O
HETATM 1933	O	HOH A 758	4.368	29.727	35.857	1.00	34.72	O
HETATM 1934	O	HOH A 759	8.909	13.427	8.751	1.00	31.73	O
HETATM 1935	O	HOH A 760	-4.486	22.860	30.688	1.00	48.55	O
HETATM 1936	O	HOH A 762	26.371	26.391	13.353	1.00	52.65	O
HETATM 1937	O	HOH A 763	-15.943	40.200	21.430	1.00	35.78	O
HETATM 1938	O	HOH A 764	2.690	49.670	4.927	1.00	42.35	O

HETATM	1939	O	HOH A 765	-16.791	31.841	13.616	1.00	32.85	O
HETATM	1940	O	HOH A 766	11.498	11.725	-2.433	1.00	30.67	O
HETATM	1941	O	HOH A 767	-11.521	21.502	22.409	1.00	28.16	O