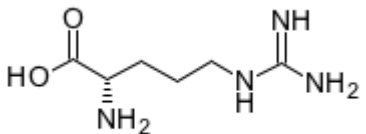


Entry	C00062 Compound
Name	L-Arginine; (S)-2-Amino-5-guanidinovaleric acid; L-Arg
Formula	C6H14N4O2
Exact mass	174.1117
Mol weight	174.201
Structure	 <p>C00062</p> <p>Mol file KCF file DB search</p>
Remark	Same as: D02982
Reaction	R00551 R00552 R00554 R00557 R00558 R00559 R00562 R00563 R00565 R00566 R00567 R00735 R00832 R00912 R01086 R01686 R01886 R01989 R03477 R03646 R05465 R05547 R08197 R09363 R09593 R09785 R10081 R10106 R10107 R10880 R11031 R11032 R11033 R11085 R11604 R11711 R11712
Pathway	map00220 Arginine biosynthesis map00261 Monobactam biosynthesis map00330 Arginine and proline metabolism map00331 Clavulanic acid biosynthesis map00472 D-Arginine and D-ornithine metabolism map00970 Aminoacyl-tRNA biosynthesis map00999 Biosynthesis of secondary metabolites - unclassified map01060 Biosynthesis of plant secondary metabolites map01064 Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid map01100 Metabolic pathways map01110 Biosynthesis of secondary metabolites map01130 Biosynthesis of antibiotics map01230 Biosynthesis of amino acids

All links

[Ontology \(1\)](#)
 [KEGG BRITE \(1\)](#)
[Pathway \(29\)](#)
 [KEGG PATHWAY \(20\)](#)
 [KEGG MODULE \(9\)](#)
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	map02010 ABC transporters map04974 Protein digestion and absorption map05014 Amyotrophic lateral sclerosis (ALS) map05132 Salmonella infection map05142 Chagas disease (American trypanosomiasis) map05146 Amoebiasis map05230 Central carbon metabolism in cancer																												
Module	M00029 Urea cycle M00047 Creatine pathway M00133 Polyamine biosynthesis, arginine => agmatine => putrescine => spermidine M00134 Polyamine biosynthesis, arginine => ornithine => putrescine M00674 Clavamate biosynthesis, arginine + glyceraldehyde-3P => clavamate M00736 Nocardicin A biosynthesis, L-PHPG + arginine + serine => nocardicin A M00785 Cycloserine biosynthesis, arginine/serine => cycloserine M00844 Arginine biosynthesis, ornithine => arginine M00845 Arginine biosynthesis, glutamate => acetylcitrulline => arginine																												
Enzyme	<table> <tr> <td>1.4.1.25</td> <td>1.4.3.25</td> <td>1.5.1.11</td> <td>1.5.1.19</td> </tr> <tr> <td>1.13.12.1</td> <td>1.14.11.41</td> <td>1.14.13.39</td> <td>1.14.14.47</td> </tr> <tr> <td>1.14.20.7</td> <td>2.1.4.1</td> <td>2.1.4.2</td> <td>2.3.1.109</td> </tr> <tr> <td>2.5.1.66</td> <td>2.6.1.84</td> <td>2.7.3.3</td> <td>3.2.2.19</td> </tr> <tr> <td>3.5.3.1</td> <td>3.5.3.6</td> <td>4.1.1.19</td> <td>4.3.2.1</td> </tr> <tr> <td>5.1.1.9</td> <td>6.1.1.19</td> <td>6.3.2.11</td> <td>6.3.2.24</td> </tr> <tr> <td>6.3.2.30</td> <td>6.3.2.48</td> <td></td> <td></td> </tr> </table>	1.4.1.25	1.4.3.25	1.5.1.11	1.5.1.19	1.13.12.1	1.14.11.41	1.14.13.39	1.14.14.47	1.14.20.7	2.1.4.1	2.1.4.2	2.3.1.109	2.5.1.66	2.6.1.84	2.7.3.3	3.2.2.19	3.5.3.1	3.5.3.6	4.1.1.19	4.3.2.1	5.1.1.9	6.1.1.19	6.3.2.11	6.3.2.24	6.3.2.30	6.3.2.48		
1.4.1.25	1.4.3.25	1.5.1.11	1.5.1.19																										
1.13.12.1	1.14.11.41	1.14.13.39	1.14.14.47																										
1.14.20.7	2.1.4.1	2.1.4.2	2.3.1.109																										
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5.1.1.9	6.1.1.19	6.3.2.11	6.3.2.24																										
6.3.2.30	6.3.2.48																												
Brite	Compounds with biological roles [BR: br08001] Peptides Amino acids Common amino acids C00062 Arginine (Arg) Risk category of Japanese OTC drugs [BR: br08312] Third-class OTC drugs Inorganic and organic chemicals L-Arginine D02982 Arginine (USP/INN) Pharmaceutical additives in Japan [BR: br08316] Stabilizing agent D02982 [003610] L-Arginine Solubilizing agent																												

	D02982 [003610] L-Arginine Buffering agent D02982 [003610] L-Arginine Solubilization agent D02982 [003610] L-Arginine Drugs listed in the Japanese Pharmacopoeia [BR: br08311] Chemicals D02982 L-Arginine BRITE hierarchy
Other DBs	CAS: 74-79-3 PubChem: 3362 ChEBI: 16467 ChEMBL: CHEMBL1485 KNAPSAcK: C00001340 PDB-CCD: ARG[PDBj] GND[PDBj] 3DMET: B01143 NIKKAJI: J9.182K
KCF data	Show

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