

Recombinant Human ASRGL1 therapeutic protein(Pegaspargase)

Cat. No. ASRGL1-P040H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Pegylated L-asparagine amidohydrolase from E. coli. Pegylation substantially (by a factor of 4) extends the protein half life. It is a modified enzyme used as an antineoplastic agent. It is a form of L-asparaginase which has undergone PEGylation. It is used in the treatment of acute lymphoblastic leukemia.
Species	Human
Source	E.coli
Description	Recombinant Human L-asparaginase, more effective than asparaginase, converts asparagine to aspartic acid and ammonia. It facilitates production of oxaloacetate which is needed for general cellular metabolism. Some malignant cells lose the ability to produce asparagine and so the loss of exogenous sources of asparagine leads to cell death.
Molecular Mass	31.7 kDa
AA Sequence	MEFFKKTALAALVMGFSGAALALPNITILATGGTIAGGGDSATKSNYTVGKVGVENLV NAVPQLKDIANKV GEQVVNIGSQDMNDNVWLTLAKKINTDCDKTDG FVITHGTD TM EETAYFLDLTVKCDKPVVMVGAMRPSTS MSADGPFNLNAVVTAA DKASANRGVL VVMNDTVLDGRDVTKTNTT DVATFKSVNYGPLGYIHNGKIDYQR TPARKHTSDTPF DVSKLNELPKVGIVYNYANASDLPAKALVDAGYDGIVSAGVGNGNLYKSVFDLATA AK TGTAVVRSSRVPTGATTQDAEVDDAKYGFVASGTLNPQKARVLLQLALTQTKDP

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	QQIQQIFNQY
Endotoxin	< 0.1 EU per µg of the protein
Purity	>95%
Alias	ALP; ALP1; CRASH; Peg-asparaginase; Pegaspargase
GENE INFORMATION	
Gene Name	ASRGL1 asparaginase like 1 [Homo sapiens]
Official Symbol	ASRGL1
Synonyms	ALP; ALP1; CRASH; L-asparaginase; L-asparagine amidohydrolase; asparaginase-like 1 protein; asparaginase-like protein 1; beta-aspartyl-peptidase; isoaspartyl dipeptidase; testis secretory sperm-binding protein Li 242mP
Gene ID	80150
mRNA Refseq	NM_001083926
Protein Refseq	NP_001077395
MIM	609212
UniProt ID	Q7L266
Chromosome Location	11q12.3
Pathway	Histidine, lysine, phenylalanine, tyrosine, proline and tryptophan catabolism,

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organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem

Function

NOT N4-(beta-N-acetylglucosaminy)-L-asparaginase activity; asparaginase activity; beta-aspartyl-peptidase activity

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