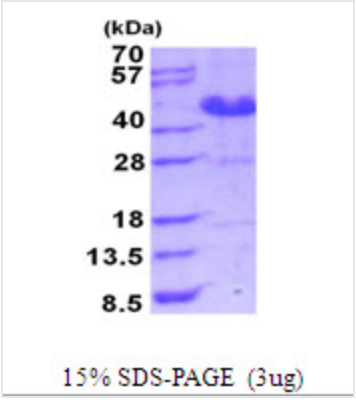
ASRGL1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	ASRGL1, Recombinant Protein
Full Product Name	ASRGL1, 1-308aa, Human, His tag, E Coli
Product Gene Name	ASRGL1 recombinant protein
Product Synonym Names	Isoaspartyl peptidase/L-asparaginase; ALP; ALP1; CRASH
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNPIVVV HGGGAGPISK DRKERVHQGM VRAATVGYGI LREGGSAVDA VEGAVVALED DPEFNAGCGS VLNTNGEVEM DASIMDGKDL SAGAVSAVQC IANPIKLARL VMEKTPHCFL TDQGAAQFAA AMGVPEIPGE KLVTERNKKR LEKEKHEKGA QKTDCQKNLG TVGAVALDCK GNVAYATSTG GIVNKMVGRV GDSPCLGAGG YADNDIGAVS TTGHGESILK VNLARLTLFH IEQGKTVEEA ADLSLGYMKS RVKGLGGLIV VSKTGDWVAK WTSTSMPWAA AKDGKLHFGI DPDDTTITDL P
Host	E Coli
Form/Format	Liquid. In phosphate buffer saline (pH 7.4) containing 10% glycerol, 1mM DTT
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	34.4 kDa (331aa) confirmed by MALDI-TOF
OMIM	AF411076 mRNA
3D Structure	ModBase 3D Structure for Q7L266
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for ASRGL1 recombinant protein	Neuroscience
Applications Tested/Suitable for ASRGL1 recombinant protein	SDS-PAGE
Related Product Information for ASRGL1 recombinant protein	Isoaspartyl peptidase/L-asparaginase, also known as ASRGL1, is a 308 amino acid protein belonging to the Ntn-hydrolase family. ASRGL1 has been identified as an autoantigenic protein that is present in the mid-piece of sperm after obstruction of the male reproductive tract. It is expressed highly in testis, but is also expressed in brain, kidney and gastrointestinal tissues. High levels of ASRGL1 have also been identified in ovarian, uterine and mammary tumors in comparison with normal tissues of the same origin. Recombinant human ASRGL1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for ASRGL1 recombinant protein	Herr J C., et al. (1999) Biol Reprod. 61: 428-435.; Bush L A., et al. (2002) Mol Reprod Dev. 62: 233-247.;
Other Notes	Small volumes of ASRGL1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASRGL1 purchase	MBS205954 is a recombinant protein targeting ASRGL1. Also known as ASRGL1, 1-308aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of ASRGL1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASRGL1. It may not necessarily be applicable to this product.

NCBI GI #	145275202
NCBI GeneID	80150
NCBI Accession #	NP_001077395
UniProt Primary Accession #	Q7L266
UniProt Secondary Accession #	Q567Q4; Q6P1P0; Q8NI34; Q9H6F7; B2R7Q0
UniProt Related Accession #	Q7L266
GenBank Nucleotide #	NM_001083926.1
NCBI Official Full Name	isoaspartyl peptidase/L-asparaginase
NCBI Official Synonym Full Names	asparaginase like 1
NCBI Official Symbol	ASRGL1
NCBI Official Synonym Symbols	ALP; ALP1; CRASH
UniProt Protein Name	Isoaspartyl peptidase/L-asparaginase
UniProt Synonym Protein Names	Asparaginase-like protein 1
Protein Family	Isoaspartyl peptidase/L-asparaginase
UniProt Gene Name	ASRGL1
UniProt Synonym Gene Names	ALP; CRASH
NCBI Protein Information	isoaspartyl peptidase/L-asparaginase
UniProt Comments for ASRGL1	Has both L-asparaginase and beta-aspartyl peptidase activity. May be involved in the production of L-aspartate, which can act as an excitatory neurotransmitter in some brain regions. Is highly active with L-Asp beta-methyl ester. Besides, has catalytic activity toward beta-aspartyl dipeptides and their methyl esters, including beta-L-Asp-L-Phe, beta-L-Asp-L-Phe methyl ester (aspartame), beta-L-Asp-L-Ala, beta-L-Asp-L-Leu and beta-L-Asp-L-Lys. Does not have aspartylglucosaminidase activity and is inactive toward GlcNAc-L-Asn. Likewise, has no activity toward glutamine.
Research Articles on ASRGL1	**1.** Our studies suggest that the p.G178R mutation in ASRGL1 leads to photoreceptor degeneration resulting in progressive vision loss.

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