

Recombinant Human AGA protein, His-tagged

Cat. No. AGA-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AGA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	AGA, as known as N (4)-(beta-N-acetylglucosaminyl)-L-asparaginase isoform 1, belongs to the N-terminal nucleophile (Ntn) hydrolase superfamily. This protein consists of different S100 proteins and then plays various roles in regulation of protein phosphorylation, the dynamics of cytoskeleton constituents, transcription factors, enzyme activities, cell growth and differentiation, and inflammatory response.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	35.7kDa (332aa) 18-57kDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPSSPLPLV VNTWPFKNAT EAAWRALASG GSALDAVESG CAMCEREQCD GSVGFGGSPD ELGETTLDAM IMDGTTMDVG AVGDLRRIKN AIGVARKVLE HTTHTLLVGE SATTFAQSMG FINEDLSTTA SQALHSDWLA RNCQPNYWRN VIPDPSKYCG PYKPPGILKQ DIPIHKETED DRGHDTIGMV VIHKTGHIAA GTSTNGIKFK IHGRVGDSPi PGAGAYADDT AGAAAATGNG DILMRFLPSY QAVEYMRRGE DPTIACQKVI SRIQKHFPEF FGAVICANVT GSYGAACNKL STFTQFSFMV YNSEKNQPTE EKVDCIHFFF HH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	> 90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	AGA aspartylglucosaminidase [Homo sapiens]
Official Symbol	AGA
Synonyms	AGA; aspartylglucosaminidase; ASRG; glycosylasparaginase; aspartylglucosylamine deaspartylase; GA; AGU;
Gene ID	175
mRNA Refseq	NM_000027
Protein Refseq	NP_000018
MIM	613228
UniProt ID	P20933
Chromosome Location	4q34.3

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Pathway Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Other glycan degradation, organism-specific biosystem; Other glycan degradation, conserved biosystem;

Function N4-(beta-N-acetylglucosaminy)-L-asparaginase activity; N4-(beta-N-acetylglucosaminy)-L-asparaginase activity; hydrolase activity; protein self-association;

