

Semaphorin 3A Active Protein | SEMA3A active protein

Human Semaphorin 3A

CATALOG # AAA79294	HOST CHO Cells	REACTIVITY Human
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PRODUCT SYNONYMS

Semaphorin 3A; Human Semaphorin 3A; SEMA3A; SEMAD; SEMA3A active protein

PRODUCT SPECIFICATIONS

Host	CHO Cells
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & HPLC analyses
Form/Format	Lyophilized from 20mM Tris, pH 8.0 Lyophilized (10mM Tris, pH 8.8 + 100mM NaCl)
Sequence	HHHHHHHHGK NNVPRKLKSY KEMLESNNVI TFNGLANSSS YHTFLLDEER SRLYVGAKDH SRLYVGAKDH DFQKIVWPVS YTRRDECKWA GKDILKECAN FIKVLKAYNQ THLYACGTGA FHPICTYIEI GHHPEDNIFK LENSHFENGR GKSPYDPKLL TASLLIDGEL YSGTAADFMG RDAIFRTLK HHHPIRTEQH DSRWLNDPKF ISAHLISESD NPEDDKVYFF FRENADGEH SGKATHARIG QICKNDFGGH RSLVKNKWTF LKARLICSVP GPNGIDTHFD ELQDVFLMNF KDPKNPVVYG VFTTSSNIFK GSAVCMYSMS DVRRVFLGPY AHRDGPYQW VPYQGRVPYP RPGTCPSKTF GGFDSTKDLP DDVITFARSH PAMYNPVFPM NNRPIVIKTD VNYQFTQIVV DRVDAEDGQY DVMFIGTDVG TVLKVVSIPK ETWYDLEEV LLEMTVFREP TAISAMELST KQQQLYIGST AGVAQLPLHR CDYKGACAE CCLARDPYCA WDGSACSRYF PTAKRATRAQ DIRNGDPLTH CSDLHHDNHH GHSPEERIIY GVENSSTFLE CSPKSQRALV YWQFQRRNEE RKEEIRVDDH IIRTDQGLLL RSLQQKDSGN YLCHAVEHGF IQTLLKVTLE VIDTEHLEEL LHKDDDGDS KTKEMSNSMT PSQKVWYRDF MQLINHPNLN TMDEFCEQVW KRDRKQRRQR PGHTPGNSNK WKHLQENKKG RNRRTHEFER APRSVGGPKS CDKTHTCPPC PAPELLGGPS VLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK
Sequence Length	771
Endotoxin level	< 0. 1 ng/ug of protein <1 EU/ug). Lyo phlize (10mM Tris, pH 8.8 + 100mM NaCl)
Biological Activity	Determined by its ability to bind recombinant rat Neuropilin-1 Fc Chimera in a functional ELISA assay.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in 20mM Tris. pH 8.5 to a concentration of 0.1-0.25 mg/mL. NOTE: Allow the reconstituted vial to sit at room temperature for 2 hours before use. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA)
length	988
Preparation and Storage	The lyophilized prtein is stable at room temperature for 1 month and at 4°C for 3 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for SEMA3A active protein	Semaphorins are a large group of structurally related secreted, GPI-anchored and transmembrane cell signaling molecules. There are 8 major classifications (1-7) of Semaphorins characterized by the existence of a conserved 500 amino acid SEMA domain at the amino terminus. Classes 3,4,6, and 7 are found in vertebrates only, whilst class 5 is found in both vertebrates and invertebrates. Each class is then divided into additional subgroups based on shared structural characteristics. Semaphorins primarily function as axon growth cone guidance factors during neuronal development. Semaphorin 3A acts as a chemo-repellent to axons, and an inhibitor of the growth of axons by signaling through receptors, Neuropilin-1and Plexin-A. Recombinant human Semaphorin 3A is a 751 amino acid protein containing the SEMA domain, an immunoglobulin c2-like domain and a basic domain (Arg/Lys rich) near the C-terminus.
Product Categories/Family for SEMA3A active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174673
NCBI GeneID	10371
NCBI Accession #	NP_006071.1
NCBI GenBank Nucleotide #	NM_006080.2
UniProt Accession #	Q14563
Molecular Weight	>200 kDa (non reducing conditions)
NCBI Official Full Name	semaphorin-3A
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A
NCBI Official Symbol	SEMA3A
NCBI Official Synonym Symbols	HH16; SemD; COLL1; SEMA1; SEMAD; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III
NCBI Protein Information	semaphorin-3A; collapsin 1; semaphorin D; semaphorin L; semaphorin III
UniProt Protein Name	Semaphorin-3A
UniProt Gene Name	SEMA3A
UniProt Synonym Gene Names	SEMAD; Sema III
UniProt Entry Name	SEM3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cho-cells-human-active-protein/semaphorin-3a/79294>