

Semaphorin-3A/SEMA3A Protein, Human (HEK293, N-His)

Cat. No.:	HY-P700297
Synonyms:	Synonyms: Semaphorin III; SEMA3A; SEMAD; Hsema-I; SEMA1; SemD; Semad; coll-1 ; Hsema-III; Sema III
Species:	Human
Source:	HEK293
Accession:	Q14563 (K26-F546)
Gene ID:	10371
Molecular Weight:	approximately 60.52 kDa

PROPERTIES

AA Sequence		
	KNNVPRLKLS YKEMLESNNV ITFNGLANSS SYHTFLLDEE	
	RSRLYVGAKD HIFSFDLVNI KDFQKIVWPV SYTRRDECKW	
	AGKDILKECA NFIKVLKAYN QTHLYACGTG AFHPICTYIE	
	IGHHPEDNIF KLENSHFENG RGKSPYDPKL LTASLLIDGE	
	LYSGTAADFM GRDFAIFRTL GHHHPIRTEQ HDSRWLNDPK	
	FISAHLISES DNPEDDKVYF FFRENAIDGE HSGKATHARI	
	GQICKNDFGG HRSLVNKWTT FLKARLICSV PGPNGIDTHF	
	DELQDVFLMN FKDPKNPVVY GVFTTSSNIF KGSAVCMYSM	
	SDVRRVFLGP YAHRDGPNYQ WVPYQGRVPY PRPGTCPSKT	
	FGGFDSTKDL PDDVITFARS HPAMYNPVFP MNNRPIVIKT	
	DVNYQFTQIV VDRVDAEDGQ YDVMFIGTDV GTVLKVVSIP	
	KETWYDLEEV LLEEMTVFRE PTAISAMELS TKQQQLYIGS	
	TAGVAQLPLH RCDIYGKACA ECCLARDPYC AWDGSACSRY	
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Biological Activity	Data is not available.	
Appearance	Lyophilized powder.	
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.	
Endotoxin Level	<1 EU/µg, determined by LAL method.	
Reconsititution		
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is	
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It	+ ic
Storage & Stability	recommended to freeze aliquots at -20°C or -80°C for extended storage.	. 15
	recommended to neeze anyuots at -20 C of -60 C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	
Sulphing	Room temperature in continental 03, may vary elsewnere.	

DESCRIPTION

Background

The Semaphorin-3A/SEMA3A Protein plays a crucial role in the development of the olfactory system and exerts influence over neuronal control of puberty. Known for its capacity to induce the collapse and paralysis of neuronal growth cones, SEMA3A is implicated in guiding specific growth cones through a motility-inhibiting mechanism, thereby contributing to the intricacies of neuronal circuit formation. This protein serves as a ligand by binding to the complex neuropilin-1/plexin-1, underscoring its involvement in transducing signaling cues critical for neuronal guidance. Additionally, SEMA3A interacts with PLXND1, further highlighting its multifaceted role in mediating cellular interactions during the intricate processes of olfactory system development and the regulation of puberty-related neuronal functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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