

# Recombinant Human SEMA5A Protein (Val319-Gln668), His tagged

**Cat. No.** SEMA5A-6683H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human SEMA5A (Val319-Gln668) fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val319-Gln668
<b>Description</b>	<p>Semaphorin-5A (SEMA5A) is a member of the Semaphorin family of axon guidance molecules. SEMA5A is a 140 kDa protein. Class 5 Semaphorins are type I transmembrane glycoproteins with an N- terminal Sema domain and multiple juxtamembrane type 1 Thrombospondin (TSP) repeats within their extracellular domains. SEMA5A is expressed in neuroepithelial cells surrounding retinal axons, oligodendrocytes, the base of limb buds, the mesoderm surrounding cranial vessels, and the cardiac atrial septum and endocardial cushions, Human SEMA5A cDNA encodes a signal sequence, a extracellular domain (ECD), a transmembrane sequence and an cytoplasmic portion. SEMA5A mutations have been implicated in the genetic syndrome, cri-du-chat, while some polymorphisms may increase risk for neurodegenerative diseases such as Parkinson. The expression of SEMA5A may be upregulated in metastatic cancer cells and downregulated in autism.</p>
<b>Form</b>	Lyophilized powder/frozen liquid

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<b>Molecular Mass</b>	40.07 kDa
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	SEMA5A semaphorin 5A [ Homo sapiens (human) ]
<b>Official Symbol</b>	SEMA5A
<b>Synonyms</b>	SEMA5A; sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A; SEMAF; semaphorin-5A; semF; sema F; semaphorin F; semaphorin-F; FLJ12815;
<b>Gene ID</b>	9037
<b>mRNA Refseq</b>	NM_003966
<b>Protein Refseq</b>	NP_003957

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**MIM** 609297

**UniProt ID** Q13591

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