

Recombinant Mouse Sema4d Protein, Myc/DDK-tagged

Cat. No. Sema4d-5760M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (Sema4d), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling. Regulates GABAergic synapse development. Promotes the development of inhibitory synapses in a PLXNB1-dependent manner. Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA. Promotes the migration of cerebellar granule cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway.
Molecular Mass	95.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Sema4d sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Mus musculus (house mouse)]
Official Symbol	Sema4d
Synonyms	SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; semaphorin-4D; sema J; M-sema G; semaphorin H; semaphorin-J; semaphorin-C-like 2; CD100; Semaj; Semcl2; coll-4; Semacl2
Gene ID	20354
mRNA Refseq	NM_013660
Protein Refseq	NP_038688
UniProt ID	O09126