

## Recombinant Mouse Sema7a Protein, Myc/DDK-tagged

Cat. No. Sema7a-5763M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Plays an important role in integrin-mediated signaling and functions both in regulating cell migration and immune responses. Promotes formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK1 and MAPK3. Promotes production of proinflammatory cytokines by monocytes and macrophages. Plays an important role in modulating inflammation and T-cell-mediated immune responses. Promotes axon growth in the embryonic olfactory bulb. Promotes attachment, spreading and dendrite outgrowth in melanocytes.
<b>Molecular Mass</b>	75.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**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** Sema7a sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A [ Mus musculus (house mouse) ]

**Official Symbol** Sema7a

**Synonyms** SEMA7A; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A; semaphorin-7A; sema L; sema K1; H-Sema K1; semaphorin-L; Semaphorin K1; semaphorin-K1; Semal; CDw108; H-Sema-L; M-Sema-L; 2900057C09Rik

**Gene ID** 20361

**mRNA Refseq** NM\_011352

**Protein Refseq** NP\_035482

**UniProt ID** Q9QUR8

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