# Recombinant Mouse Semaphorin 5A/SEMA5A Protein (His

### Tag)

Catalog Number: PKSM040409



Note: Centrifuge before opening to ensure complete recovery of vial contents.

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LIACOPT	ntion
Descri	

**Synonyms** 5930434A13;9130201M22Rik;AI464145;Semaf;semF

Species Mouse

Expression Host

Sequence

Met1-Thr765

Accession

Q3UPZ0

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met1-Thr765

Q3UPZ0

85.1 kDa

96 kDa

C-His

#### **Properties**

**Purity** > 85 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4

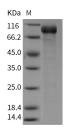
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 85 % as determined by reducing SDS-PAGE.

#### **Background**

Semaphorins are secreted, transmembrane, and GPI-linked proteins, defined by cysteine-rich semaphorin protein domains, that have important roles in a variety of tissues. Humans have 20 semaphorins, Drosophila has five, and two are known from DNA viruses. Semaphorins are found in nematodes and crustaceans but not in non-animals. They are grouped into eight classes on the basis of phylogenetic tree analyses and the presence of additional protein motifs. Semaphorins have been implicated in diverse developmental processes such as axon guidance during nervous system development and regulation of cell migration. Semaphorin-5A, also known as Semaphorin-F, Sema F, SEMA5A and SEMAF, is a single-pass type I membrane protein which belongs to thesemaphorin family. Semaphorin5A / SEMA5A contains onePSI domain, oneSema domain and sevenTSP type-1 domains. It may act as positive axonal guidance cues.

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Semaphorin5A / SEMA5A is an axon regulator molecule and plays major roles during neuronal and vascular development. It plays an essential role in embryonic development. Semaphorin5A / SEMA5A induces endothelial cell migration from pre-existing vessels. It also plays a role in autism, reducing the ability of neurons to form connections with other neurons in certain brain regions.

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