



Recombinant Human SEMA4D (C-Fc)

Catalog #	EPT258
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Semaphorin 4D is produced by our Mammalian expression system and the target gene encoding Met22-Arg734 is expressed with a Fc tag at the C-terminus.
Accession	AAH54500.1
Synonyms	Semaphorin-4D; A8;BB18; GR3; CD100
Mol Mass	106.4 KDa
AP Mol Mass	130-170 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin	Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
RECONSTITUTION	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.





It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

Semaphorin-4D is also known as A8, BB18, GR3, CD100. Semaphorin-4D belongs to the semaphorin family containing 1 Ig-like C2-type domain, 1 PSI domain and 1 Sema domain. It is the cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. It promotes the migration of cerebellar granule cells and of endothelial cells, regulates dendrite and axon

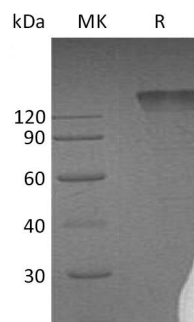




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branching and morphogenesis. Semaphorin-4D
Plays a role in the immune system; Promotes signaling
via SRC and PTK2B/PYK2, which then mediates
activation of phosphatidylinositol 3-kinase and of the
AKT1 signaling cascade.

SDS-PAGE



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