

Recombinant Human Semaphorin-4D/CD100 protein (His tag)



Catalog Number:PDMH100057

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

Description

Synonyms	A8;SEMA4D;BB18;COLL4;Collapsin 4;GR3;MSEMA;Sema H;SEMA J;Semacl2;SemaH;Semcl 2
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Arg734
Accession	Q92854
Calculated Molecular Weight	80.6 kDa
Observed molecular weight	90 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
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.

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 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.

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