Recombinant Mouse Semaphorin-4D/SEMA4D Protein (His Tag)

Catalog No. PKSM040568

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

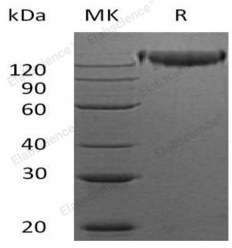
Description

Synonyms	SEMA4D;Semaphorin-4D;M-Sema G;Semaphorin-C-like 2;Semaphorin-J;Sema J;CD100;Semacl2;Semaj;coll-4;Semacl2;Semaj
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Arg 733
Accession	NP_038688.2
Calculated Molecular Weight	80.2 kDa
Observed molecular weight	100-110 kDa
Tag	C-His
Bioactivity	Measured by its ability to bind human SEMA4A in a functional ELISA.

Properties

Purity	> 96 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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



> 96 % as determined by reducing SDS-PAGE.

Background

Semaphorin 4D (SEMA4D or CD1) is a member of the semaphorin family of proteins and an important mediator of the

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movement and differentiation of multiple cell types, including those of the immune, vascular, and nervous systems. VEGF and SEMA4D had a positive correlation with the malignant degree of ovarian cancer, and SEMA4D can serve as an independent prognostic factor. SEMA4D was the first semaphorin described to have immune functions and serves important roles in T cell priming, antibody production, and cell-to-cell adhesion. Proteolytic cleavage of SEMA4D from the cell surface gives rise to a soluble fragment of SEMA4D (sSEMA4D). Similar to the transmembranal form, sSEMA4D is thought to have immunoregulatory properties.

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