

Recombinant Protein Technical Manual

Recombinant Rat Semaphorin 4D/SEMA4D/CD100 Protein (Fc Tag) RPES4638

Product Data:

Product SKU: RPES4638

Size: 50µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_001164034.1

Drotoin	Informer	ations
Protein	IIIOIII	lation:

Molecular Mass:	103.4 kDa
AP Molecular Mass:	118 kDa
Tag:	C-Fc
Bio-activity:	
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method
Storage:	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
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	SEMA4D

Sequence: Met1-Met712

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.