

Plexin-B1 Protein, Human, Recombinant (mFc)

General Information

Synonyms: KIAA0407;PLXNB1;Plexin-B1;PLXN5;SEP;Semaphorin receptor SEP

Protein Construction: 20-535 aa

Species: Human

Expression Host: HEK293 Cells

Accession: O43157

Molecular Weight: 83.2 kDa (predicted)

AA Sequence: LQPLPPTAFTPNGTYLQHLARDPTSGTLYLGATNFLFQLSPGLQLEATVSTGPVLDSDCLPPVMPDECPQAAQ
PTNPNQLLLVSFGALVVCVSVHGVCEQRRLGQLEQLLLRPERPGDTQYVAANDPAVSTVGLVAQGLAGE
PLLFVGRGYTSRGVGGGIPPITRALWPPDPQAAFSYEETAKLAVGRLSEYSHHFVSAFARGASAYFLFLRRDL
QAQSRFRAYVSRVCLRDQHYYSVELPLACEGGRYGLIQAAAVATSREVAHGEVLFSAFSSAAPPTVGRPP
SAAAGASGASALCAFPLDEVDRLANRTRDACYTREGRAEDGTEVAYIEYDVNSDCAQLPVDTLDAYPCGSDH
TPSPMASRVPLEATPILEWPGIQLTAVAVTMEDGHTIAFLGDSQGQLHRVYLGPGSDGHPYSTQSIQGS
RDLTFDGTFEHLYVMTQSTLLKVPVASCALHDCASCLAHRDPYCGWCVLLGRCSRSECSRQGPQWLW
SFQPELGCLQ

QC Testing

Biological Activity: Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 5 µg/mL can bind human PLXNB1, the EC 50 is 0.8179-1.357 µg/mL.

Purity: > 95% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 6% Trehalose, pH 7.4

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Receptor for SEMA4D. Plays a role in GABAergic synapse development. Mediates SEMA4A- and SEMA4D-dependent inhibitory synapse development. Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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