

Product Data Sheet

Plexin B1 Protein, Human (HEK293, mFc)

Cat. No.:	HY-P700428		
Synonyms:	Plexin-B1; PLXNB1; Semaphorin receptor SEP; KIAA0407; PLXN5; SEP		
Species:	Human		
Source:	HEK293		
Accession:	O43157 (L20-Q535)		
Gene ID:	5364		
Molecular Weight:	83.2 kDa		

PROPERTIES

AA Sequence	LQPLPPTAFT	PNGTYLQHLA	RDPTSGTLYL	GATNFLFQLS		
	PGLQLEATVS	TGPVLDSRDC	LPPVMPDECP	QAQPTNNPNQ		
	LLLVSPGALV	V C G S V H Q G V C	EQRRLGQLEQ	LLLRPERPGD		
	ΤQΥVAANDPA	VSTVGLVAQG	LAGEPLLFVG	RGYTSRGVGG		
	GIPPITTRAL	WPPDPQAAFS	YEETAKLAVG	RLSEYSHHFV		
	SAFARGASAY	FLFLRRDLQA	QSRAFRAYVS	RVCLRDQHYY		
	SYVELPLACE	GGRYGLIQAA	AVATSREVAH	GEVLFAAFSS		
	AAPPTVGRPP	SAAAGASGAS	ALCAFPLDEV	DRLANRTRDA		
	CYTREGRAED	GTEVAYIEYD	VNSDCAQLPV	DTLDAYPCGS		
	DHTPSPMASR	VPLEATPILE	WPGIQLTAVA	VTMEDGHTIA		
	FLGDSQGQLH	R V Y L G P G S D G	ΗΡΥSΤQSΙQQ	G S A V S R D L T F		
	DGTFEHLYVM	TQSTLLKVPV	ASCAQHLDCA	SCLAHRDPYC		
	GWCVLLGRCS	R R S E C S R G Q G	PEQWLWSFQP	ELGCLQ		
Appearance	Lyophilized powder.					
Formulation	I van bilized from a 0.2 um filtered colution of DRS 604 Trabalace pH 7.4					
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 6% Trenalose, pH 7.4.					
Endotovin Level	<1 FUL/up determined by LAL method					
Endotoxin Level	<1 E0/μg, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 µg/m in ddH ₂ O					
Reconstitution	is not recommended to reconstitute to a concentration less than του μg/mc in duri20.					
Storage & Stability	bility Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier pro-					
,	recommended to freeze aliquots at -20°C or -80°C for extended storage.					
Shipping	Room temperature in continental US: may vary elsewhere.					
110						

DESCRIPTION

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Background

The Plexin B1 Protein acts as a receptor for SEMA4D, playing a critical role in GABAergic synapse development and mediating SEMA4A- and SEMA4D-dependent inhibitory synapse development. Additionally, it is involved in RHOA activation and subsequent changes in the actin cytoskeleton, contributing to axon guidance, invasive growth, and cell migration. It exists as a monomer and forms heterodimers with PLXNB2 after proteolytic processing. Plexin B1 binds to activated RAC1 and interacts with various proteins, including PLXNA1, ARHGEF11, ARHGEF12, ERBB2, MET, MST1R, RRAS, RHOD, RND1, NRP1, and NRP2. The interaction with SEMA4D promotes the binding of cytoplasmic ligands, emphasizing its intricate involvement in cellular signaling pathways and synaptic development.

Caution: Product has not been fully validated for medical applications. For research use only.

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