

Recombinant Human PLXC1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50804

Size: 10ug, 100ug

Protein Name: Plexin-C1 (Virus-encoded semaphorin protein receptor) (CD antigen CD232)

Synonym: PLXNC1, VESPR

UniProt ID: O60486

UniProt Link: www.uniprot.org/uniprotkb/O60486/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1568 AA

Molecular Weight: 176 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEVSRRKAPPRPPRPAAPLPLLAYLLALAAPGRGADEPVWRSEQAIGAIAASQEDGVFVASGSCLD
QLDYSLEHSLSRLYRDQAGNCTEPVSLAPPARPRPGSSFSKLLLPYREGAAGLGLLLTGWTFDRG
ACEVRPLGNLSRNSLRNGTEVVSCHPQGSTAGVVYRAGRNNRWYLAVAATYVLPEPETASRCNPA
ASDHDTAIALKDTEGRSLATQELGRLKLCGAGSLHFVDAFLWNGSIYFPYYPYNYTSGAATGWPS
MARIAQSTEVLFQGGASLDCGHGHPDGRRLLLSSSLVEALDVWAGVFSAAAGEGQERRSPTTTALC
LFRMSEIQARAKRVSWDFKTAESHCKEGDQPERVQPIASSTLIHSDLT SVYGTVMNRTVLFLGTGD
GQLLKVILGENLTSNCPYIYEIKEETPVFYKLVDPVKNIYIYLTAGKEVRRIRVANCNKHKSCSECLT
ATDPHCGWCHSLQRCTFQGDCVHSENLENWLDISSGAKKCPKIQIIRSSKEKTTVTMVGFSFSPRHSK
CMVKNVDSSRELQCNKSQPNRTCTCSIPTATYKDVSVNVNMFSGSWNLSDRFNFTNCSSLKECP
ACVETGCAWCKSARRCIHPFTACDPSDYERNQECPVAVEKTSGGGRPKENKGNRTNQALQVFI
KSIQPKVSTLGKSNVIVTGANFTRASNITMILKGTSTCDKDVIVSHVLNDTHMKFSLPSSRKEMKD
VCIQFDGGNCSSVGSLSYIALPHCSLIFPATTWISGGQNITMMGRNFDVIDNLIISHELKGNINVSEYCV
ATYCGFLAPSLKSSKVRTNVTVKLRVQDTYLDGTLQYREDPRFTGYRVESEVDTELEVKIQKENDN
FNISKKDIEITLFHGENGQLNCSFENITRNQDLTTILCKIKGIKTASTIANSSKKVRVKLGNNLELYVEQES
VPSTWYFLIVLPVLLVIVFAAVGVTRHKSKELSRKQSQQELLESELRKEIRDGFAELQMDKLDVVDS
FGTVPFDDYKHFAALRTFFPESGGFTTHIFTEDMHNRDANDKNESLTALDALICNKSFLVTVIHTLEKQKN
FSVKDRCLFASFLTIALQTKLVYLTSLILEVLTDLMEQCSNMQPKMLRRTESVVEKLLTNWMSVCLS
GFLRETVGEPFYLLVTTLNQKINKGPVDVITCKALYTLNEDWLLWQVPEFSTVALNVVFEKIPENESA
DVCRNISVNVLDLDCDTIGQAKEKIFQAFLSKNGSPYGLQLNEIGLELQMGRQKELLDIDSSSVILEDGI



TKLNTIGHYEISNGSTIKVFKKIANFTSDVEYSDDHCHLILPDSEAFQDVQGKRHRGKHKFKVKEMYL
TKLLSTKVAIHSVLEKLFERSIWSLPNSRAPFAIKYFFDFLDAQAENKKITDPDVVHIWKTNSLPLRFWV
NILKNPQFVFDIKKTPHIDGCLSVIAQAFMDAFSLTEQQLGKEAPTNKLLYAKDIPTYKEEVKSYYKAIR
DLPPLSSSEMEEFLTQESKKHENEFNEEVALTEIYKYIVKYFDEILNKLERERGLEEAQKQLLHVKVLF
DEKKKCKWM

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Plexin-C1 (Virus-encoded semaphorin protein receptor) (CD antigen CD232) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Receptor for SEMA7A, for smallpox semaphorin A39R, vaccinia virus semaphorin A39R and for herpesvirus Sema protein. Binding of semaphorins triggers cellular responses leading to the rearrangement of the cytoskeleton and to secretion of IL6 and IL8 (By similarity).

Subcellular Localization: Membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.