

Recombinant Human NECT2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50704

Size: 10ug, 100ug

Protein Name: Nectin-2 (Herpes virus entry mediator B) (Herpesvirus entry mediator B) (HveB) (Nectin cell adhesion molecule 2) (Poliovirus receptor-related protein 2) (CD antigen CD112)

Synonym: NECTIN2, HVEB, PRR2, PVRL2

UniProt ID: Q92692

UniProt Link: www.uniprot.org/uniprotkb/Q92692/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 538 AA

Molecular Weight: 58 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MARAAALLPSRSPPTPLLWPLLLLLLLLETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLV
TWQRPDAPANHQNVAAAFHPKMGPSFSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVE
DEGNYTCEFATFPKGSVRGMTWLRVIAKPKNQAEAQKVTFSQDPTTVALCISKEGRPPARISWLSSL
DWEAKETQVSGTLAGTVTVTSRFTLVPSGRADGVTVTCKVEHESFEERALIPVTLVRYPPPEVSISG
YDDNWYLGRTDATLSCDVRNPEPTGYDWSTTSGTFPTSAVAQGSQVLVIHAVDSLNTTFVCTVTN
AVGMGRAEQVIFVRETPNTAGAGATGGIIGGIIAIIATAVAATGILICRQQRKEQTLQGAEEDEDLEG
PPSYKPPTPKAKLEAQEMPSQLFTLGASEHSPLKTPYFDAGASCTEQEMPRYHELPTLEERSGPLH
PGATSLGSPVPPGPPAVEDVSLDLEDEEGEEEEYLDKINPIYDALSYSSPSDSYQGKGFVMSRA
MYV

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 Nectin-2 (Herpes virus entry mediator B) (Herpesvirus entry mediator B) (HveB) (Nectin cell adhesion molecule 2) (Poliovirus receptor-related protein 2) (CD antigen CD112) 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: Modulator of T-cell signaling. Can be either a costimulator of T-cell function, or a coinhibitor, depending on the receptor it binds to. Upon binding to CD226, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Upon interaction with PVRIG, inhibits T-cell proliferation. These interactions are competitive (PubMed:26755705). Probable cell adhesion protein (PubMed:9657005).; (Microbial infection) Acts as a receptor for herpes simplex virus 1 (HHV-1) mutant Rid1, herpes simplex virus 1 (HHV-2) and pseudorabies virus (PRV).

Subcellular Localization: Cell 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.