

Recombinant Human VTI1A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51053

Size: 10ug, 100ug

Protein Name: Vesicle transport through interaction with t-SNAREs homolog 1A (Vesicle transport v-SNARE protein Vti1-like 2) (Vti1-rp2)

Synonym: VTI1A

UniProt ID: Q96AJ9

UniProt Link: www.uniprot.org/uniprotkb/Q96AJ9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 217 AA

Molecular Weight: 25 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSSDFEGYEQDFAVLTAETSKIARVPRLPPDEKKQMVANVEKQLEEAKELLEQMDLEVREIPPQSR
GMYSNRMRSYKQEMGKLETDFKRSRIAYSDEVNELLGDDGNSSSENQRAHLLDINTERLERSRRL
EAGYQIAVETEQIGQEMLNLSHDREKIQRARERLRETDANLGKSSRILTGMLRRIIQNRILLVILGIIV
ITILMAITFSVRRH

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 Vesicle transport through interaction with t-SNAREs homolog 1A (Vesicle transport v-SNARE protein Vti1-like 2) (Vti1-rp2) 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: V-SNARE that mediates vesicle transport pathways through interactions with t-SNAREs on the target membrane. These interactions are proposed to mediate aspects of the specificity of vesicle trafficking and to promote fusion of the lipid bilayers. Involved in vesicular transport from the late endosomes to the trans-Golgi network. Along with VAMP7, involved in a non-conventional RAB1-dependent traffic route to the cell surface used by KCNIP1 and KCND2. May be involved in increased cytokine secretion associated with cellular senescence.

Subcellular Localization: Cytoplasmic vesicle . Golgi apparatus membrane ; Single-pass type IV 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.