

Recombinant Human SCAM5 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50874

Size: 10ug, 100ug

Protein Name: Secretory carrier-associated membrane protein 5 (Secretory carrier membrane protein 5) (hSCAMP5)

Synonym: SCAMP5

UniProt ID: Q8TAC9

UniProt Link: www.uniprot.org/uniprotkb/Q8TAC9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 235 AA

Molecular Weight: 26 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEKVNNFPPLPKFIPLKPCFYQDFEADIPPQHVSMTKRLYYLWMLNSVTLAVNLVGCLAWLIGGGG
ATNFGLAFLWLILFTPCCSYVCWFRPIYKAFKTDSSFSFMAFFFTFMAQLVISIIQAVGIPGWGVCGWIA
TISFFGTNIGSAVVMLIPTVMFTVMAVFSFIALSMVHKFYRGSGGSFSKAQEEWTTGAWKNPHVQQA
AQNAAMGAAQGAMNQPQTQYSATPNYTYSNEM

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 Secretory carrier-associated membrane protein 5 (Secretory carrier membrane protein 5) (hSCAMP5) 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: Required for the calcium-dependent exocytosis of signal sequence-containing cytokines such as CCL5. Probably acts in cooperation with the SNARE machinery. May play a role in accumulation of expanded polyglutamine (polyQ) protein huntingtin (HTT) in case of endoplasmic reticulum stress by inhibiting the endocytosis pathway.

Subcellular Localization: Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Recycling endosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane ; Multi-pass membrane protein .
Note=Mainly localizes in Golgi apparatus membrane. Upon calcium-triggered exocytosis, it translocates to the cell membrane. Highly enriched in synaptic vesicles (By similarity).

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.