

Recombinant Human SEPT8 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50882

Size: 10ug, 100ug

Protein Name: Septin-8

Synonym: SEPTIN8, KIAA0202, SEPT8

UniProt ID: Q92599

UniProt Link: www.uniprot.org/uniprotkb/Q92599/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 483 AA

Molecular Weight: 56 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAATDLERFSNAEPEPRSLSLGGHVGFDLPDQLVSKSVTQGFSFNILCVGETGIGKSTLMNTLFNT
TFETEEASHHEACVRLRPQTYDLQESNVQLKLTIVDAVGFGDQINKDESYRPIVDYIDAQFENYLQEE
LKIRRS�FDYHDTRIHVCLYFITPTGHSLKSLDLVTMKKLDSKVNIPIIAKADTISKSELHKFKIKIMGELV
SNGVQIYQFPTDDEAVAEINAVMNAHLPPFAVVGSTEEVKVGNKLVRRARQYPWGVVQVENENHCDF
VKLREMLIRVNMEDLREQTHSRHYELYRRCKLEEMGFQDSGDSDQPFSLQETYEAKRKEFLSELQR
KEEEMRQMFVNKVKETELKEKERELHEKFEHLKRVHQEEKRKVEEKRRELEEETNAFNRRKAAV
EALQSQUALHATSQQPLRKDKDKKNRSDIGAHQPGMSLSSSKVMMTKASVEPLNCSSWWPAIQCCS
CLVRDATWREGFL

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 Septin-8 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: Filament-forming cytoskeletal GTPase (By similarity). May play a role in platelet secretion (PubMed:15116257). Seems to participate in the process of SNARE complex formation in synaptic vesicles (By similarity).; [Isoform 4]: Stabilizes BACE1 protein levels and promotes the sorting and accumulation of BACE1 to the recycling or endosomal compartments, modulating the beta-amyloidogenic processing of APP.

Subcellular Localization: Cytoplasm . Cytoplasm, cytoskeleton . Synapse . Cell projection, axon . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane . Presynapse . Note=Expressed in axons of immature neurons, localizes to synapses in mature neurons (By similarity). In platelets, found in areas surrounding alpha-granules (PubMed:15116257).

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.