

Recombinant Human QORL1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50831

Size: 10ug, 100ug

Protein Name: Ferry endosomal RAB5 effector complex subunit 4 (Fy-4) (Crystallin zeta like 1) (Protein 4P11) (Quinone oxidoreductase homolog 1) (QOH-1)

Synonym: CRYZL1, 4P11, FERRY4

UniProt ID: O95825

UniProt Link: www.uniprot.org/uniprotkb/O95825/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 349 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKGLYFQQSSTDEEITVFVFEKEDLPVTEDNFVKLQVKACALSQINTKLLAEMKMKDLFPVGREIAG
IVLDVGSKVSFFQPDDEVVVGILPLDSEDPGLCEVVRVHEHYLVHKPEKVTWTEAAGSIRDGVRAYTA
LHYLSHLSPGKSVLIMDGASAFGTIAIQLAHHRGAKVISTACSLQKQCLERFRPPIARVIDVSNGKVH
VAESCLEETGGLGVDIVLDAGVRLYSKDDEPAVKLQLLPHKHDIIITLLGVGGHWVTTEENLQLDPPDS
HCLFLKGATLAFLNDEVWNLSNVQQGKYLKLDVMEKLSTGVFRPQLDEPIPLYEAKVSMEAVQKN
QGRKKQVVQF

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 Ferry endosomal RAB5 effector complex subunit 4 (Fy-4) (Crystallin zeta like 1) (Protein 4P11) (Quinone oxidoreductase homolog 1) (QOH-1) 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: Component of the FERRY complex (Five-subunit Endosomal Rab5 and RNA/ribosome intermediary) (PubMed:37267905, PubMed:37267906). The FERRY complex directly interacts with mRNAs and RAB5A, and functions as a RAB5A effector involved in the localization and the distribution of specific mRNAs most likely by mediating their endosomal transport. The complex recruits mRNAs and ribosomes to early endosomes through direct mRNA-interaction (PubMed:37267905).

Subcellular Localization: Early endosome .

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.