

Recombinant Mouse CBLN4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51731

Size: 10ug, 100ug

Protein Name: Cerebellin-4 (Cerebellin-like glycoprotein 1)

Synonym: Cbln4, Cbln1

UniProt ID: Q8BME9

UniProt Link: www.uniprot.org/uniprotkb/Q8BME9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 198 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGSARRALSVVPAVLLILVLPVWAQNDEPIVLEGKCLVVCDSNPATDSKGSSSSPLGISVRAANSKV
AFSAVRSTNHEPSEMSNKTRIIFYDQILVNVGNFFTLSEVVFAPRKGIIYSFSFHVIVKYQSQTIVNLM
LNGKPVISAFAGDKDVTREAAATNGVLLYLDKEDKVYLKLEKGNLLGGWQYSTFSGFLVFPL

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 Cerebellin-4 (Cerebellin-like glycoprotein 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: Acts as a synaptic organizer in specific subsets of neurons in the brain (PubMed:29691328). Essential for the formation and maintenance of inhibitory GABAergic synapses (PubMed:25534236). Promotes the development of dendrite-targeting inhibitory GABAergic synapses made by somatostatin-positive interneurons (PubMed:30679375). May contribute to the function of ventral medial habenula region of the brain implicated in the regulation of anxiety-related behaviors (PubMed:30287486). May play a role in CBLN3 export from the endoplasmic reticulum and secretion (PubMed:17030622).

Subcellular Localization: Secreted . Synapse . Note=Detected at GABAergic synapses.

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.