

Recombinant Rat CAVN3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52612

Size: 10ug, 100ug

Protein Name: Caveolae-associated protein 3 (Cavin-3) (D3T-inducible gene 2 protein) (DIG-2) (Dithiolethione-inducible gene 2 protein) (Protein kinase C delta-binding protein) (Serum deprivation response factor-related gene product that binds to C-kinase)

Synonym: Cavin3, Dig2, Prkcdbp, Srbc

UniProt ID: Q9Z1H9

UniProt Link: www.uniprot.org/uniprotkb/Q9Z1H9/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 263 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGESALEPGPVPGAPAGGPVHAVTVVTLLLEKLATMLEALRERQGGGLAERQGGLAGSVRRRIQSGLGALS
LSRSHDTTSNTLAQLLAKAERVGSHADAAQERAVHRAAQVQRLEANHGLLVARGKLHVLLFKEETEI
PARAFQKAPELLGPEDQLVLGPEQPEDEVGESSDEEPVESRAQRLRRTGLQKVQSLKRAFSSRKG
SEAAQPTPVKPPRLGPVRNSEGPAEGQPAAQPAMEPVLPSALEPEPPQPTKEDPERPVLQIESAA

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 Caveolae-associated protein 3 (Cavin-3) (D3T-inducible gene 2 protein) (DIG-2) (Dithiolethione-inducible gene 2 protein) (Protein kinase C delta-binding protein) (Serum deprivation response factor-related gene product that binds to C-kinase) 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: Regulates the traffic and/or budding of caveolae. Plays a role in caveola formation in a tissue-specific manner. Required for the formation of caveolae in smooth muscle but not in the lung and heart endothelial cells. Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by promoting the rapid release of caveolae from the cell surface. Plays a role in the regulation of the circadian clock. Modulates the period length and phase of circadian gene expression and also regulates expression and interaction of the core clock components PER1/2 and CRY1/2 (By similarity). Seems to have an immune potentiation function, especially in the glioma (PubMed:15197346).

Subcellular Localization: Cytoplasm . Membrane, caveola . Cytoplasm, cytosol . Note=Localizes in the caveolae in a caveolin-dependent manner.

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.