

Recombinant Rat 1433T Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52645

Size: 10ug, 100ug

Protein Name: 14-3-3 protein theta (14-3-3 protein tau)

Synonym: Ywhaq

UniProt ID: P68255

UniProt Link: www.uniprot.org/uniprotkb/P68255/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 245 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEKTELIQKAKLA EQAERYDDMATCHMKAVTEQGAELSNEERNLLSVAYKNVVGGRSAWRVISSIE
QKTDTS DKKLQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFY LKMKGDYFRYLA EVACG
DDRKQTIENSQGAYQEAFDISKKEMQPTHPIRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELD
TLNEDSYKDSTLIMQLLRDNLT LWTSDSAGEECDAAEGAEN

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 14-3-3 protein theta (14-3-3 protein tau) 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: Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negatively regulates the kinase activity of PDPK1 (By similarity).

Subcellular Localization: Cytoplasm.

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.