

Recombinant Rat PP1RB Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52664

Size: 10ug, 100ug

Protein Name: E3 ubiquitin-protein ligase PPP1R11 (EC 2.3.2.27) (Protein phosphatase 1 regulatory subunit 11)

Synonym: Ppp1r11

UniProt ID: Q6MFY6

UniProt Link: www.uniprot.org/uniprotkb/Q6MFY6/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 127 AA

Molecular Weight: 14 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEAGAGGLSETVTETT VTTTEPENRSLTIKLRKRKPEKKVEWSSDTVDNEHMGRRSSKCCCIYE
KPRAFGESSTESDEDEEEGCGHTHCVRGHRKGRRPTTPGPTPTTPPQPPDPSQPPPGPMQH

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 E3 ubiquitin-protein ligase PPP1R11 (EC 2.3.2.27) (Protein phosphatase 1 regulatory subunit 11) 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: Atypical E3 ubiquitin-protein ligase which ubiquitinates TLR2 at 'Lys-754' leading to its degradation by the proteasome. Plays a role in regulating inflammatory cytokine release and gram-positive bacterial clearance by functioning, in part, through the ubiquitination and degradation of TLR2. Inhibitor of protein phosphatase 1.

Subcellular Localization: N/A

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.