

Recombinant Rat PE2R4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52363

Size: 10ug, 100ug

Protein Name: Prostaglandin E2 receptor EP4 subtype (PGE receptor EP4 subtype) (PGE2 receptor EP4 subtype) (Prostanoid EP4 receptor)

Synonym: Ptger4

UniProt ID: P43114

UniProt Link: www.uniprot.org/uniprotkb/P43114/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 488 AA

Molecular Weight: 53 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSIPGVNASFSSTPERLNSPVTIPAVMFIFGVVGNLVAIVVLCKSRKEQKETTFFYTLVCGLAVTDLLGT
LLVSPVTIATYMKGQWPGDQALCDYSTFILLFFGLSGLSIICAMSIERYLAINHAYFYSHYVDKRLAGLT
LFAVYASNVLFICALPNMGLGRSERQYPGTWCFIDWTTNVTAYAAFSYMYAGFSSFLILATVLCNVLV
CGALLRMLRQFMRRRTSLGTEQHHAAAAAASVACRGHAAASPALQRLSDFRRRRRSFRRIAGAEIQ
MVILLIATSLVVLCISPLVVRVFINQLYQPSVVKDISRNPDLQAIRIASVNPILDPWIYILLRKTIVLSKAIEK
IKCLFCRIGGSGRDGSAQHCSERRTSSAMSGHSRSFLSRELREISSTSHTLLYLPDLTESSLGGKKNL
LPGTHGMGLTQADTTSLRTLRISETSDSSQGQDSESVLLVDEVSGSQREEPASKGNSLQVTFPSETL
KLSEKCI

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 Prostaglandin E2 receptor EP4 subtype (PGE receptor EP4 subtype) (PGE2 receptor EP4 subtype) (Prostanoid EP4 receptor) 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: Receptor for prostaglandin E2 (PGE2). The activity of this receptor is mediated by G(s) proteins that stimulate adenylate cyclase. Has a relaxing effect on smooth muscle. May play an important role in regulating renal hemodynamics, intestinal epithelial transport, adrenal aldosterone secretion, and uterine function.

Subcellular Localization: Cell membrane; Multi-pass membrane protein.

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.