

Recombinant Human TMIG2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50982

Size: 10ug, 100ug

Protein Name: Transmembrane and immunoglobulin domain-containing protein 2 (CD28 homolog) (Immunoglobulin and proline-rich receptor 1) (IGPR-1)

Synonym: TMIGD2, CD28H, IGPR1, UNQ3059/PRO9879

UniProt ID: Q96BF3

UniProt Link: www.uniprot.org/uniprotkb/Q96BF3/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 282 AA

Molecular Weight: 31 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGSPGMVLGLLVQIWALQEASSLSVQQGPNLLQVRQGSQATLVCQVDQATAWERLRVKWTKDGA
LCQPYITNGSLSLGVCGPQGRLSWQAPSHLTQLDVPVSLNHSGAYVCWAAVEIPELEEAEGNITRLF
VDPDDPTQNRNRRIASFPGFLFVLLGVGSMGVAAIVWGAWFWGRRSCQQRDSGNSPGNAFYSNVLY
RPRGAPKKSEDCSGEGKDQRGQSIYSTSFPQPAPRQPHLASRPCSPRPCSPRPGHPVSMVRVS
PRPSPTQQPRPKGFPKVGE

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 Transmembrane and immunoglobulin domain-containing protein 2 (CD28 homolog) (Immunoglobulin and proline-rich receptor 1) (IGPR-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: Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.

Subcellular Localization: Cell membrane ; Single-pass type I 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.