

Recombinant Mouse CML1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51521

Size: 10ug, 100ug

Protein Name: Chemerin-like receptor 1 (Chemokine-like receptor 1) (G protein-coupled receptor DEZ)

Synonym: Cmk1r1, Dez, Gpcr27

UniProt ID: P97468

UniProt Link: www.uniprot.org/uniprotkb/P97468/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 371 AA

Molecular Weight: 42 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEYDAYNDSGIYDDEYS DGFYFVDLEEAS PWEAKVAPVFLVVIYSLVCFLGLLGNGLVIVIATFKMK
KTVNTVWFVNLA VADFLFNIFLPMHITYAAMDYHWWFGKAMCKISN FLLSHNMYTSVFLLTVISFDRCI
SVLLPVWSQNHRSIRLAYMTCSAVWVLAFFLSSPSLVFRDTANIHGKITCFNNFSLAAPESSHPAHS
QVVSTGYSRHHVAVTVTRFLCGFLIPVFIITACYLTIVFKLQRNRLAKNKKPFKIIITIIITFFLCWCPYHTLY
LLELHHTAVPSSVFS LGLPLATAVAIA NSCMNPILYVFMGHDFRKF KVALFSRLANALSED TGPSYP
SHRSFTKMSSLNEKASVNEKETSTL

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 Chemerin-like receptor 1 (Chemokine-like receptor 1) (G protein-coupled receptor DEZ) 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 the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 initiates activation of G proteins G(i)/G(o) and beta-arrestin pathways inducing cellular responses via second messenger pathways such as intracellular calcium mobilization, phosphorylation of MAP kinases MAPK1/MAPK3 (ERK1/2), TYRO3, MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of immune responses, enhancing of adipogenesis and angiogenesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B (By similarity). Positively regulates adipogenesis and adipocyte metabolism.

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.