

Recombinant Mouse TNR11 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51149

Size: 10ug, 100ug

Protein Name: Tumor necrosis factor receptor superfamily member 11A (Osteoclast differentiation factor receptor) (ODFR) (Receptor activator of NF-KB) (CD antigen CD265)

Synonym: Tnfrsf11a, Rank

UniProt ID: O35305

UniProt Link: www.uniprot.org/uniprotkb/O35305/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 625 AA

Molecular Weight: 67 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAPRARRRRQLPAPLLALCVLLVPLQVTLQVTPPCTQERHYEHLGRCCSRCEPGKYLSSKCTPTSD
SVCLPCGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRR
NTECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTESDVVCS
SSMTLRRPPKEAQAYLPSLIVLLLFISVVVVAIIIFGVYYRKGGKALTANLWNWVNDACSSLSGNKES
SGDRCAGSHSATSSQQEVCEGILLMTREEKMPEDGAGVCGPVC AAGGPWAEVRDSRTFTLVSEV
ETQGDLSRKIPTED EYTD RPSQPSTGSLLLIQQGSKSIPPFQEPLVGENDSL SQCFTGTESTVDSE
GCDFTPEPSRTDSMPVSPEKHLTKIEGDSCLPWVSSNSTDGYTGSGNTPGEDHEPFPGSLKCG
PLPQCAYSMGFPSEAAASMAEAGVRPQDRADERGASGSGSSPSDQPPASGNVTGNSNSTFISSG
QVMNFKGDIIVVYSQTSQEGPGSAEPESEPVGRP VQEETLAHRDSFAGTAPRFPDVCATGAGLQE
QGAPRQKDGTSRPVQEQGGAQTSLHTQGSGQCAE

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 Tumor necrosis factor receptor superfamily member 11A (Osteoclast differentiation factor receptor) (ODFR) (Receptor activator of NF- κ B) (CD antigen CD265) 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 TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL-mediated osteoclastogenesis (PubMed:20483727, PubMed:23478294, PubMed:9878548). Its interaction with EEIG1 promotes osteoclastogenesis via facilitating the transcription of NFATC1 and activation of PLCG2 (PubMed:23478294). Involved in the regulation of interactions between T-cells and dendritic cells (PubMed:9367155).

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein . Membrane raft .
Note=Following TNFSF11/RANKL stimulation, recruited to lipid rafts along with STAC2.

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.