

Recombinant Human TNFR11 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51001

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: Q9Y6Q6

UniProt Link: www.uniprot.org/uniprotkb/Q9Y6Q6/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 616 AA

Molecular Weight: 66 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAPRARRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSV
CLPCGPDEYLD SWNEEDKCLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRNT
ECAPGLGAQHPLQLNKDTVCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSS
SLPARKPPNEPHVYLPGLIILLLFASVALVAAIIFGVCYRKKGKALTANLWHWINEACGRLSGDKESSG
DSCVSTHTANFGQQGACEGVLLLTLEEKTFPEDMCYPDQGGVCQGTCTVGGGPYAQGEDARMLSL
VSKTEIEEDSFRQMPTED EYMDRPSQPTDQLLFLTEPGSKSTPPFSEPLEVGENDSL SQCFTGTQST
VGSESCNCTEPLCRTDWTPMSS ENYLQKEVDSGHCPHWAASPSPNWADVCTGCRNPPGEDCEPL
VGSPKRGPLPQ CAYGMGLPPEEEASRTEARDQPEDGADGRLPSSARAGAGSGSSPGGQSPASGN
VTGNSNSTFISSGQVMNFKGDIIVVYSQTSQEGAAAAA EPMGRP VQEETLARRDSFAGNGPRFPD
PCGGPEGLREPEKASRPVQEQGGA

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:9878548). Its interaction with EEIG1 promotes osteoclastogenesis via facilitating the transcription of NFATC1 and activation of PLCG2 (By similarity). Involved in the regulation of interactions between T-cells and dendritic cells (By similarity).

Subcellular Localization: [Isoform 1]: Cell membrane ; Single-pass type I membrane protein . Membrane raft . Note=Following TNFSF11/RANKL stimulation, recruited to lipid rafts along with STAC2.; [Isoform RANK-e5a]: 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.