# Tumor Necrosis Factor Receptor Superfamily Member 11a (TNFRSF11A) Mouse Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Tumor necrosis factor receptor superfamily member 11A (Tnfrsf11a), Recombinant Protein |
| **Full Product Name** | Recombinant Mouse Tumor necrosis factor receptor superfamily member 11A (Tnfrsf11a) |
| **Product Gene Name** | Tnfrsf11a recombinant protein |
| **Product Synonym Gene Name** | Tnfrsf11a; Rank |
| **Product Synonym Names** | Tumor necrosis factor receptor superfamily member 11A; Osteoclast differentiation factor receptor; ODFR; Receptor activator of NF-KB; CD_antigen=; CD265 |
| **Sequence** | VTPPCTQERH YEHLGRCCSR CEPGKYLSSK CTPTSDSVCL PCGPDEYLDT WNEEDKCLLH KVCDAGKALV AVDPGNHTAP RRCACTAGYH WNSDCECCRR NTECAPGFGA QHPLQLNKDT VCTPCLLGFF SDVFSSTDKC KPWTNCTLLG KLEAHQGTTE SDVVCSSSMT LRRPPKEAQA YLPS |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 66,621 Da |
| **Sequence Positions** | 31-214 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for O35305 |
| **Species** | Mus musculus (Mouse) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Tnfrsf11a recombinant protein** | MBS1257854 is a recombinant protein targeting Tnfrsf11a. Also known as Recombinant Mouse Tumor necrosis factor receptor superfamily member 11A (Tnfrsf11a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of Tnfrsf11a recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tnfrsf11a. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 110350009 |
| **NCBI GeneID** | 21934 |
| **NCBI Accession #** | NP_033425.3 |

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| **UniProt Primary Accession #** | O35305 |
| **UniProt Secondary Accession #** | Q8VCT7 |
| **UniProt Related Accession #** | O35305 |
| **GenBank Nucleotide #** | NM_009399.3 |
| **NCBI Official Full Name** | tumor necrosis factor receptor superfamily member 11A |
| **NCBI Official Synonym Full Names** | tumor necrosis factor receptor superfamily, member 11a, NFKB activator |
| **NCBI Official Symbol** | Tnfrsf11a |
| **NCBI Official Synonym Symbols** | OFE; ODFR; Rank; Ly109; mRANK; TRANCE-R |
| **UniProt Protein Name** | Tumor necrosis factor receptor superfamily member 11A |
| **UniProt Synonym Protein Names** | Osteoclast differentiation factor receptor; ODFR; Receptor activator of NF-KB; CD_antigen: CD265 |
| **Protein Family** | Tumor necrosis factor receptor superfamily |
| **UniProt Gene Name** | Tnfrsf11a |
| **UniProt Synonym Gene Names** | Rank; ODFR |
| **UniProt Entry Name** | TNR11_MOUSE |
| **NCBI Protein Information** | tumor necrosis factor receptor superfamily member 11A; receptor activator of NF-KB; receptor activator of NF-kappaB; osteoclast differentiation factor receptor |
| **UniProt Comments for Tnfrsf11a** | TNFRSF11A: Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL-mediated osteoclastogenesis. Involved in the regulation of interactions between T-cells and dendritic cells. Binds to the clefts between the subunits of the TNFSF11 ligand trimer to form a heterohexamer. Interacts with TRAF1, TRAF2, TRAF3, TRAF5 and TRAF6. Interacts (via cytoplasmic domain) with GAB2. Ubiquitous expression with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.<br><br>Protein type: Membrane protein, integral<br><br>Cellular Component: cell surface; membrane; integral to membrane; plasma membrane; external side of plasma membrane<br><br>Molecular Function: protein binding; transmembrane receptor activity; tumor necrosis factor receptor activity; metal ion binding; cytokine binding<br><br>Biological Process: circadian thermoregulation; positive regulation of JNK activity; ossification; adaptive immune response; tumor necrosis factor-mediated signaling pathway; response to cytokine stimulus; multicellular organismal development; programmed cell death; response to lipopolysaccharide; positive regulation of transcription factor activity; osteoclast differentiation; lymph node development; activation of NF-kappaB transcription factor |
| **Research Articles on Tnfrsf11a** | **1.** silencing of miR-503 using a specific antagomir in ovariectomy (OVX) mice increased RANK protein expression, promoted bone resorption |
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