

## Product datasheet for **TP723424**

### **RANK (TNFRSF11A) (NM\_003839) Human Recombinant Protein**

#### **Product data:**

|                                              |                                                                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Type:</b>                         | Recombinant Proteins                                                                                                                                                                                                |
| <b>Description:</b>                          | Purified recombinant protein of Human tumor necrosis factor receptor superfamily, member 11a, NFkB activator (TNFRSF11A).                                                                                           |
| <b>Species:</b>                              | Human                                                                                                                                                                                                               |
| <b>Expression Host:</b>                      | E. coli                                                                                                                                                                                                             |
| <b>Expression cDNA Clone or AA Sequence:</b> | MQIAPPCTSE KHYEHLGRCC NKCEPGKYMS SKCTTTSDSV CLPCGPDEYL DSWNEEDKCL LHKVCDTGKA LVAVAGNST TPRRCACTAG YHWSQDCECC RRNTECAPGL GAQHPLQLNK DTVCKPCLAG YFSDAFSSTD KCRPWNTCTF LGKRVEHHGT EKSDAVCSSS LPARK                     |
| <b>Tag:</b>                                  | Tag Free                                                                                                                                                                                                            |
| <b>Predicted MW:</b>                         | 19.3 kDa                                                                                                                                                                                                            |
| <b>Concentration:</b>                        | lot specific                                                                                                                                                                                                        |
| <b>Purity:</b>                               | >95% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                          |
| <b>Buffer:</b>                               | Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2                                                                                                                            |
| <b>Bioactivity:</b>                          | Determined by its ability to inhibit sRANKL induced NFkB in RAW264.7 cells in the absence of any cross-linking. The expected ED50 for this effect in the presence of 15ng/ml of recombinant sRANKL, is 30-50 ng/ml. |
| <b>Endotoxin:</b>                            | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)                                                                                                                                                               |
| <b>Storage:</b>                              | Store at -80°C.                                                                                                                                                                                                     |
| <b>Stability:</b>                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.                                                                                                                     |
| <b>RefSeq:</b>                               | <a href="#">NP_003830</a>                                                                                                                                                                                           |
| <b>Locus ID:</b>                             | 8792                                                                                                                                                                                                                |
| <b>UniProt ID:</b>                           | <a href="#">Q9Y6Q6</a>                                                                                                                                                                                              |
| <b>RefSeq Size:</b>                          | 3133                                                                                                                                                                                                                |
| <b>Cytogenetics:</b>                         | 18q21.33                                                                                                                                                                                                            |
| <b>RefSeq ORF:</b>                           | 1848                                                                                                                                                                                                                |
| <b>Synonyms:</b>                             | CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER                                                                                                                                         |



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**Summary:**

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptors can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. This receptor and its ligand are important regulators of the interaction between T cells and dendritic cells. This receptor is also an essential mediator for osteoclast and lymph node development. Mutations at this locus have been associated with familial expansile osteolysis, autosomal recessive osteopetrosis, and Paget disease of bone. Alternatively spliced transcript variants have been described for this locus. [provided by RefSeq, Aug 2012]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Cytokine-cytokine receptor interaction

**Product images:**