



RANK Receptor, soluble, human recombinant (rHuRANKReceptor)

Catalog No: 97643
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, ODFR, Receptor activator of NF-KB, FEO; OFE; ODFR; OST5; PDB2; RANK; CD265; OPTB7; TRANCER; LOH18CR1

Background

sRANK Receptor is a part of the TNF superfamily of ligands and receptors which participates in the regulation of specific immunity and bone turnover. sRANK Receptor was originally acknowledged as a dendritic-cell-membrane protein, which by interacting with RANKL augments the capacity of dendritic cells to stimulate native T cell proliferation and to endorse the survival of RANK and T cells. The full length human RANK cDNA encodes a type I transmembrane protein of 616 amino acids with a predicted 183 amino acid extracellular domain and a 383 amino acid cytoplasmic domain. sRANK Receptor is also expressed in a various tissues including skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.

Description

sRANK Receptor Human Recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 174 amino acids and having a molecular mass of 19.1 kDa. sRANK Receptor is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0 and 150 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized Leukemia Inhibitory Factor (LIF) in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Leukemia Inhibitory Factor (LIF) although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Leukemia Inhibitory Factor (LIF) should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

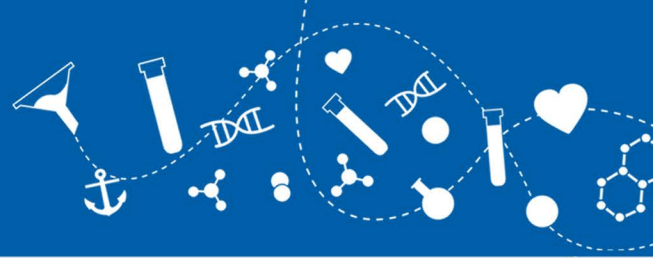
Amino Acid Sequence

QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT
PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCKPCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE
KSDAVCSSSL PARK

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51

**Activity**

Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit sRANK Ligand induced nuclear factor kappa B (NFκB) in RAW 264.7 cells is less than 50 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^4$ IU/mg in the presence of 15 ng/ml of recombinant sRANK Ligand.

Usage

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