sRANK Receptor Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: TNFRSF11A, ODFR (osteoclast differentiation factor receptor), ODAR (osteoclast differentiation and activation receptor), TRANCE Receptor

Cat. No.:

RBG10284020	(20 µg)
RBG10284100	(100 µg)
RBG10284250	(250 µg)

Description

RANKL and RANK are members of the TNF superfamily of ligands and receptors that play an important role in the regulation of specific immunity and bone turnover. RANK (receptor) was originally identified as a dendritic cell-membrane protein, which, by interacting with RANKL, augments the ability of dendritic. These dendritic cells then stimulate naïve T-cell proliferation, and promote the survival of RANK + T-cells. RANK is also expressed in a variety of tissues, including skeletal muscle, thymus, liver, colon, small intestine, and adrenal gland. The RANK/RANKL interaction is important in the regulation of osteoclastogenesis, and in dendritic cell-mediated T-cell immune responses. Impairments in RANK signaling have been implicated in the induction of expansile osteolysis and Paget's disease of bone (PDB2). Recombinant Human sRANK Receptor is a 19.3 kDa polypeptide containing the TNFR-homologous, cysteine-rich portion of the extracellular domain of RANK receptor (175 amino acid residues).

Research topic

Others

Amino Acid Sequence

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MQIAPPCTSE KHYEHLGRCC NKCEPGKYMS SKCTTTSDSV CLPCGPDEYL DSWNEEDKCL LHKVCDTGKA LVAVVAGNST
TPRRCACTAG YHWSQDCECC RRNTECAPGL GAQHPLQLNK DTVCKPCLAG YFSDAFSSTD KCRPWTNCTF LGKRVEHHGT
EKSDAVCSSS LPARK
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Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit sRANKL induced NF-kappaB in RAW264.7 cells in the absence of any cross-linking. The expected ED_{50} for this effect in the presence of 15 ng/ml of recombinant sRANKL, is 30-50 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at-20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com