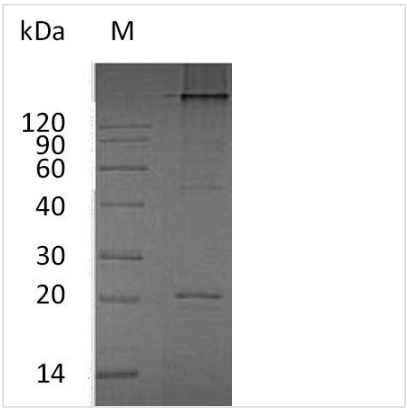
Recombinant Human Tumor necrosis factor ligand superfamily member 11 (TNFSF11), partial (Active)

Product Code	CSB-AP004851HU
Uniprot No.	O14788
Storage Buffer	Lyophilized from a 0.2 μm Filtered 20 mM Tris-HCl, 150 mM NaCl, pH 8.0
Product Type	Tumor Necrosis Factors
Immunogen Species	Homo sapiens (Human)
Biological Activity	①Loaded Recombinant Human OPG-Fc on Pro A Biosensor, can bind Human RANKL with an affinity constant of 1.83 pM as determined in BLI assay. ② Loaded Human RANK-His on HIS1K Biosensor, can bind Human RANK L with an affinity constant of <1 pM as determined in BLI assay.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	IRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSSWYHDRG WAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMVYVTKTS IKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLLDP DQDATYFGAFKVRDID
Research Area	Cancer
Source	E.coli
Gene Names	TNFSF11
Expression Region	140-317aa
Tag Info	Tag-Free
Mol. Weight	22.4 kDa
Protein Description	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

CUSABIO Recombinant Human TNFSF11 is a high-quality protein specifically

designed for cancer research. TNFSF11, also known as Tumor necrosis factor ligand superfamily member 11 or Osteoclast differentiation factor, plays a critical role in osteoclastogenesis and bone remodeling. It is also referred to as Osteoprotegerin ligand and Receptor activator of nuclear factor kappa-B ligand due to its involvement in various biological processes.

This recombinant protein is expressed in E. coli and features an N-terminal 6xHis-tag for easy purification and detection. With a purity level of over 90% as determined by SDS-PAGE analysis, you can trust its quality and reliability for your research needs. The protein covers a partial length, spanning amino acids 140 to 317, which is relevant for studying its role in cancer.

The activity of our TNFSF11 has been evaluated using a functional ELISA, measuring its ability to bind SF11A. The effective dose (ED50) for this binding activity is less than 10 μg/ml, indicating its strong affinity and functional capability. Furthermore, the product has been thoroughly tested to have an endotoxin level of less than 1.0 EU/μg, ensuring its suitability for sensitive applications. It is provided in a convenient lyophilized powder form, offering stability and ease of use in your laboratory experiments and applications.

Endotoxin	Less than 1.0 EU/μg as determined by LAL method.