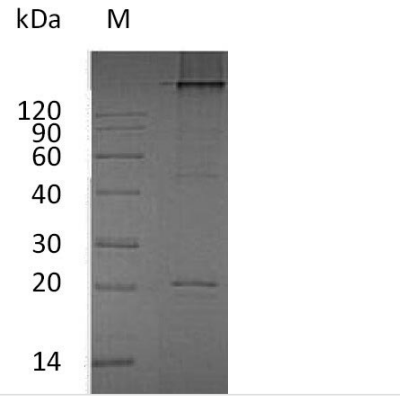
Recombinant Human Tumor necrosis factor ligand superfamily member 11 (TNFSF11), partial (Active)

Product Code	CSB-AP004851HU
Abbreviation	Recombinant Human TNFSF11 protein, partial (Active)
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
Target Names	TNFSF11
Expression Region	140-317aa
Tag Info	Tag-Free
Mol. Weight	22.4 kDa
Protein Length	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.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.