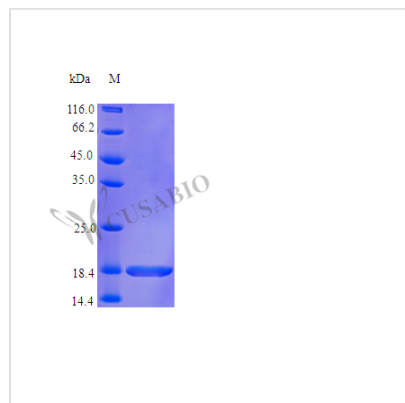




Recombinant Human Tumor necrosis factor receptor superfamily member 11A protein (TNFRSF11A), partial (Active)

Product Code	CSB-AP002321HU
Abbreviation	Recombinant Human TNFRSF11A protein, partial (Active)
Uniprot No.	Q9Y6Q6
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, pH 8.0, 150mM NaCl
Product Type	Tumor Necrosis Factor
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit sRANK Ligand induced nuclear factor kappa B(NFkappaB) 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.
Purity	$>98\%$ as determined by SDS-PAGE.
Sequence	QIAPPCTSEK HYEHLGRCCN KCEPGKYMSS KCTTTSDSVC LPCGPDEYLD SWNEEDKCLL HKVCDTGKAL VAVVAGNSTT PRRCACTAGY HWSQDCECCR RNTECAPGLG AQHPLQLNKD TVCKPCLAGY FSDAFSSTDK CRPWTNCTFL GKRVEHHGTE KSDAVCSSSL PARK
Research Area	Cancer
Source	E.coli
Target Names	TNFRSF11A
Expression Region	29-202aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	19.1 kDa
Protein Length	Partial
PubMed ID	9367155; 23664977; 9878548; 9774460; 15750601; 18669648; 10615125; 18606301

Image



Description

The Recombinant Human Tumor necrosis factor receptor superfamily member 11A protein (TNFRSF11A) was generated by the expression of a DNA fragment encoding 29-202aa of human TNFRSF11A in E.coli. The partial-length protein underwent validation through SDS-PAGE and HPLC analyses and reached up to 90% in purity. It was also verified to be fully biologically active through its interaction with sRANK Ligand. The endotoxin of this TNFRSF11A is less than 1.0 EU/μg as determined by the LAL method. The proteins are in-stock so that there is no waiting period for the protein preparation. Proteins carrying custom tags are also offered. This recombinant TNFRSF11A protein may be used for specific antibody production or in the studies of TNFRSF11A-associated cancers.

TNFRSF11A, also known as RANK, is the receptor for RANKL. RANK-RANKL interaction is involved in multiple biological processes, such as the resorption ? remodeling and dysregulation ? re-regulation of bone, the formation of bone marrow, the development of thymus ? lymph node, intestinal immunity, inflammation in the skin and central nervous system (CNS), tumorigenesis and metastasis. Mutations in RANK or RANKL are related to the pathogenesis of bone diseases and some types of cancer.

Endotoxin

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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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.