

Recombinant Rat Tnfrsf11a Protein, C-His-tagged

Product Information

Cat	IMP-4918
Official Symbol	Tnfrsf11a
Product Overview	Recombinant rat TNFRSF11A (XP_573424.2) extracellular domain (Met 1-Pro 213) was fused with a polyhistidine tag at the C-terminus.
Description	<p>TNFRSF11A is a member of the TNF-receptor superfamily. In mouse, it is also known as CD265. TNFRSF11A contains 4 TNFR-Cys repeats and is widely expressed with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. It is an essential mediator for osteoclast and lymph node development. TNFRSF11A and its ligand are important regulators of the interaction between T cells and dendritic cells. It can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. Defects in TNFRSF11A can cause familial expansile osteolysis (FEO). FEO is a rare autosomal dominant bone disorder characterized by focal areas of increased bone remodeling. Defects in TNFRSF11A also can cause Paget disease of bone type 2 (PDB2). PDB2 is a bone-remodeling disorder with clinical similarities to FEO. Defects in TNFRSF11A are the cause of osteopetrosis autosomal recessive type 7 which characterized by abnormally dense bone, due to defective resorption of immature bone.</p>
Expression System	HEK293
Species	Rat
Tag	C-His
Predicted N Terminal	Val 31
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	The secreted recombinant rat TNFRSF11A comprises 194 amino acids and predicts a molecular mass of 21.5 kDa. The apparent molecular mass of the rat TNFRSF11A is approximately 32 kDa in SDS-PAGE under reducing conditions.
Protein length	Met1-Pro213
Endotoxin	< 1.0 EU/μg of the protein as determined by the LAL method
Purity	> 97 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid

repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

SDS-PAGE

