

Active Recombinant Mouse Tnfrsf11b Protein, His tagged

Cat. No. Tnfrsf11b-04M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Tnfrsf11B (22-401 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	22-401 aa
Description	Enables heparan sulfate binding activity. Involved in negative regulation of osteoclast differentiation. Acts upstream of or within extracellular matrix organization; negative regulation of odontogenesis of dentin-containing tooth; and negative regulation of tumor necrosis factor-mediated signaling pathway. Located in extracellular matrix. Is expressed in several structures, including arterial system; bone; gut; hemolymphoid system gland; and placenta. Used to study osteoporosis. Human ortholog(s) of this gene implicated in Paget's disease of bone; Paget's disease of bone 5; and osteoarthritis. Orthologous to human TNFRSF11B (TNF receptor superfamily member 11b).
Form	Liquid
AASequence	ETLPPKYLHYDPETGHQLLCDKCAPGTYLKQHCTVRRKTL CVPCPDHSYTD SWHTS DECVYCSPVCKELQSVKQECNRTHNRVCECEEGRYLEIEFCLKHRSCPPGSGVVQ AGTPERN TVCKKCPDGGFFSGETSSKAPCIKHTNCSTFGLLLIQGNATHDNCVSGN

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REATQKCGIDVTLCEEAFRRFAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSS
 QEQTFFQLLKLWKHQNRDQEMVKKIIQDIDLCESSVQRHLGHSNLTTEQLLALMESLP
 GKKISPEEIERTRKTCKSSEQLLKLLSLWRIKNGDQDTLKGLMYALKHLKTSHFPKTV
 THSLRKTMRFLHSFTMYRLYQKLFLEMIGNQVQSVKISCL

Molecular Mass 44.4 kDa

Bio-activity Measured by its ability to inhibit cytotoxicity using Jurkat human acute T cell leukemia cells in the presence of 2 ng/mL of human TRAIL. The ED50 range $\leq$ 50 ng/mL.

Endotoxin < 1 EU/ μ g of protein determined by LAL method

Purity > 90% by SDS-PAGE

Application SDS-PAGE, Bioactivity

Note For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Concentration 0.25 mg/mL (determined by absorbance at 280nm)

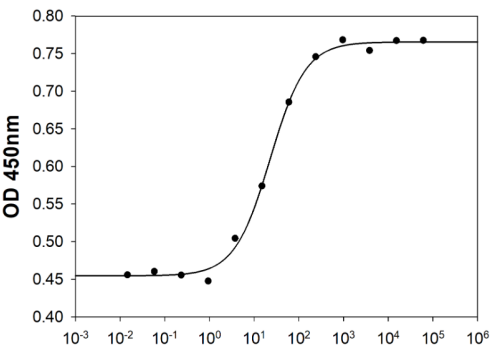
GENE INFORMATION

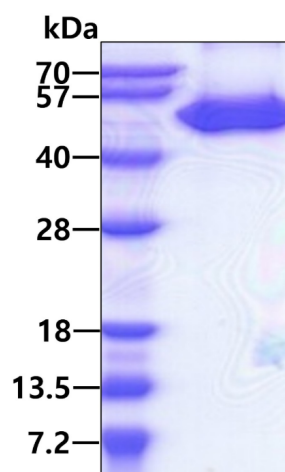
Gene Name Tnfrsf11b tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) [*Mus musculus* (house mouse)]

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Official Symbol	Tnfrsf11b																				
Synonyms	Tnfrsf11b; tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin); Opg; TR1; OCIF; tumor necrosis factor receptor superfamily member 11B; osteoclastogenesis inhibitory factor; osteoprotegerin																				
Gene ID	18383																				
mRNA Refseq	NM_008764																				
Protein Refseq	NP_032790																				
UniProt ID	O08712																				
Biological Activity	Mouse OPG/TNFRSF11B (ng/ml)  <table border="1"> <caption>Approximate data points from the graph</caption> <thead> <tr> <th>Mouse OPG/TNFRSF11B (ng/ml)</th> <th>OD 450nm</th> </tr> </thead> <tbody> <tr><td>10⁻³</td><td>0.45</td></tr> <tr><td>10⁻²</td><td>0.45</td></tr> <tr><td>10⁻¹</td><td>0.45</td></tr> <tr><td>10⁰</td><td>0.45</td></tr> <tr><td>10¹</td><td>0.55</td></tr> <tr><td>10²</td><td>0.70</td></tr> <tr><td>10³</td><td>0.75</td></tr> <tr><td>10⁴</td><td>0.75</td></tr> <tr><td>10⁵</td><td>0.75</td></tr> </tbody> </table> Human Mouse OPG/TNFRSF11B inhibits Human TRAIL cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 range ≤ 50 ng/mL.	Mouse OPG/TNFRSF11B (ng/ml)	OD 450nm	10 ⁻³	0.45	10 ⁻²	0.45	10 ⁻¹	0.45	10 ⁰	0.45	10 ¹	0.55	10 ²	0.70	10 ³	0.75	10 ⁴	0.75	10 ⁵	0.75
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SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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