

For Research Use Only

Recombinant Rat TNFSF12 protein (rFc Tag)



Catalog Number: Eg3887

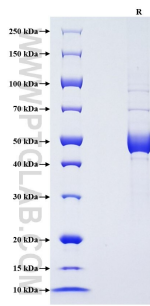
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Rat TNFSF12 protein Arg105-His249 (Accession# Q6AYC1) with a rabbit IgG Fc tag at the N-terminus. GeneID: 360548 Accession: Q6AYC1 Predicted Molecular Mass: 43.2 kDa SDS-PAGE: 45-50 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	TNFSF12, also known as tumor necrosis factor superfamily member 12 or TWEAK (TNF-like weak inducer of apoptosis), is a protein that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for the FN14/TWEAKR receptor and shares overlapping signaling functions with TNF, yet it exhibits a broader tissue distribution. Additionally, TNFSF12 has been found to promote the proliferation and migration of endothelial cells, acting as a regulator of angiogenesis. This cytokine is also implicated in the modulation of chronic inflammation and has been studied for its role in various diseases, including its potential as a therapeutic target. TNFSF12 in rats, similar to its human counterpart, exists in both membrane-bound and secreted forms and can induce apoptosis through multiple cell death pathways in a cell type-specific manner.		
References	1. Carlos Matellan. et al. (2024). J Immunol. 212(12):1958-1970. 2. Yale Liu. et al.(2017). J Invest Dermatol.137(7):1512-1522. 3. Crina Claudia Rusu. et al. (2016). Med Ultrason. 18(1):57-63.		
Synonyms	Prmt2, Tumor necrosis factor ligand superfamily member 12		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Rat TNFSF12 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.