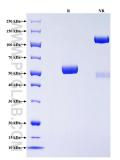
For Research Use Only Recombinant Rat TIMP-1 protein (rFc Tag)



Catalog Number: Eg3212

Basic Information	<mark>Species:</mark> Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ μ g protein, LAL method		
	Source: HEK293-derived Rat TIMP-1 protein Cys24-Ala217 (Accession# P30120) with a rabbit IgG Fc tag at the C- terminus.		
	GenelD: 116510		
	Accession: P30120		
	Predicted Molecular Mass: 47.8 kDa		
	SDS-PAGE: 50-60 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 temperature.	ambient temperature. Upon receipt, store	e it immediately at the recommended
Reconstitution	Briefly centrifuge the tub	e before opening. Reconstitute at 0.1-0.5	mg/mL in sterile water.
Background	proteolytic activity of mat is essential for extracellu inhibits extracellular mat the ECM associated with o functions such as promot into the extracellular envi induced in several cell typ	pproteases 1 (TIMP1) is named for its well rix metalloproteases (MMPs). The balance lar matrix maintenance, remodeling, and t rix (ECM) degradation mediated by MMPs. vulation, luteinization, and degeneration ion of cell proliferation and inhibition of a ronment, TIMP1 is found in most tissues a res, mainly due to external stimuli, such as d cytokines (IL-6 and IL-1).	between the activities of MMPs and TIMPs curnover in physiological events. TIMP1 TIMP1 plays a crucial role in remodeling . TIMP1 has several MMP-independent apoptosis. As a soluble protein secreted and body fluids. TIMP1 expression can be
References	2.Schoeps B. et al. (2021) (3.Tan Y. et al. (2021) Bioch	MG. (2021) Int J Mol Sci. 22(17):9319. Cancer Res. 81(13):3568-3579. em Pharmacol. 189:114085. Anim Breed. 65(1):105-111.	
Synonyms	Metalloproteinase inhibit	or 1, TIMP-1, Tissue inhibitor of metallopr	roteinases 1

Selected Validation Data



Purity of Recombinant Rat TIMP-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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