

For Research Use Only

Recombinant Human TIMP4 protein (rFc Tag)



Catalog Number: Eg3334

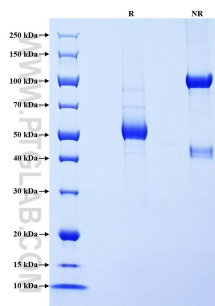
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human TIMP4 protein Cys30-Pro224 (Accession# Q99727) with a rabbit IgG Fc tag at the C-terminus. GeneID: 7079 Accession: Q99727 Predicted Molecular Mass: 48.7 kDa SDS-PAGE: 48-60 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 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	Endogenous inhibitors of matrix metalloproteinases (MMPs) called tissue inhibitors of matrix metalloproteinases (TIMPs) form a family of four members, TIMP1-4. Although possessing many similarities, TIMPs show several structural and biochemical differences, and their expression patterns differ. TIMP4 is characterized by being primarily restricted to cardiovascular structures. Experimental studies have suggested a role for TIMP4 in cardiovascular disorders exhibiting an inflammatory component. Overexpression of TIMP4 has been observed within the arterial wall in rats after a balloon injury. TIMP4 has been shown to suppress vascular smooth muscle cell migration and induce cell apoptosis and to inhibit capillary endothelial cell migration.		
References	1. Baker AH et al. (2002) J Cell Sci. 115:3719-3727. 2. Spinale FG et al. (2002) Circ Res. 90:520-530. 3. Li YY et al. (1999) Cardiovasc Res. 42:162-72. 4. Schulze CJ et al. (2003) Circulation. 107:2487-92. 5. Guo YH et al. (2004) Life Sci. 75:2483-93.		
Synonyms	TIMP4, TIMP-4, Metalloproteinase inhibitor 4, TIMP 4		

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

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Selected Validation Data



Purity of Recombinant Human TIMP4 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.