Recombinant Human TIMP-1 protein (His tag)

Catalog No. PKSH033392

Note: Centrifuge before opening to ensure complete recovery of vial contents.

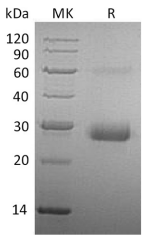
Description

Synonyms	Metalloproteinase Inhibitor 1, Erythroid-Potentiating Activity, EPA, Fibroblast collagenase Inhibitor, Collagenase Inhibitor, Tissue Inhibitor of Metalloproteinases 1, TIMP-1, TIMP1, CLGI, TIMP, CLGI, EPA, EPO, HCI
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Ala207
Accession	P01033
Calculated Molecular Weight	21.8 kDa
Observed molecular weight	30 kDa
Tag	C-His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com

Tissue Inhibitor of Metalloproteinases 1 (TIMP-1) is a member of TIMP family. The homologous proteins of TIMPs regulate the activity of matrix metalloproteinases (MMPs), including inhibition of active MMPs, proMMP activation, cell growth promotion, matrix binding, inhibition of angiogenesis and the induction of apoptosis. Timp-1 complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. It also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. It is known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13, and MMP-16, without MMP-14.

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