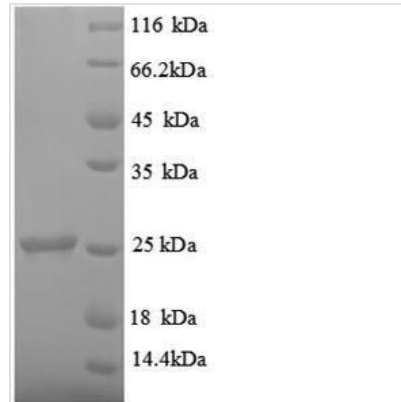




Recombinant Rat Metalloproteinase inhibitor 1 (Timp1)

Product Code	CSB-RP167194r
Relevance	Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Also stimulates steroidogenesis by Leydig and ovarian granuloma cells; procathepsin L is required for maximal activity.
Abbreviation	Recombinant Rat Timp1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P30120
Alias	Tissue inhibitor of metalloproteinases 1 ;TIMP-1
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	CSCAPTHPQTAF CNSDLVIRAKFMGSP EIIETTL YQRYEIKMTKMLKGFDAVGN ATGFRFAYTPAMESLCGYVHKSQNRSEEF LIAGRLRNGNLHITACSF LVPWHN LSPAQQKAFVKTY SAGCGVCTVFPCSAIPCKLES DSHCLWTDQILMGSEKGY QSDHFACLPRNPD LCTWQYLGVSMTRSLPLAKAEA
Research Area	Others
Source	E.coli
Target Names	Timp1
Expression Region	24-217aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	25.5kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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