

Recombinant Mouse Metalloproteinase inhibitor 1(Timp1)

Catalog No: #AP70850

Package Size: #AP70850-1 20ug #AP70850-2 100ug #AP70850-3 1mg

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Description

Product Name	Recombinant Mouse Metalloproteinase inhibitor 1(Timp1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:25-205aaSequence Info:Full Length
Other Names	Collagenase inhibitor 16C8 fibroblastErythroid-potentiating activity ;EPATPA-S1TPA-induced protein;Tissue inhibitor of metalloproteinases 1 ;TIMP-1
Accession No.	P12032
Calculated MW	36.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	CSCAPHPQTAFCSNDLVIRAKFMGSPEINETTLYQRYKIKMTKMLKGFKAVGNAADIRYAYTPVMESLCGYA HKSQNRSEEFITGRLRNGNLHISACSFVLPWRTLSPAQQRAFSKTYAGCGVCTVFPCLSIPLCKLESPTHCL WTDQVLVGSEDYQSRHFACLPNPLCTWRS LGAR
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates th 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.¹ Publication

References

Timp1 interacts with beta-1 integrin and CD63 along melanoma genesis and confers anoikis resistance by activating PI3-K signaling pathway independently of Akt phosphorylation.Toricelli M., Melo F.H., Peres G.B., Silva D.C., Jasiulionis M.G.Mol. Cancer 12:22-22(2013)Research
Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.