

Metalloproteinase inhibitor 1

Catalog No: #AP78558



Package Size: #AP78558-1 50ug #AP78558-2 100ug #AP78558-3 1mg

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Description

Product Name	Metalloproteinase inhibitor 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Rat
Immunogen Description	24-217AA
Other Names	Timp-1, Tissue inhibitor of metalloproteinases 1, TIMP-1
Accession No.	P30120 Gene name: Timp1
Uniprot	P30120
GeneID	116510;
Calculated MW	21.34
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole, 10% glycerol (pH 8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.) 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 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.

References

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Note: This product is for in vitro research use only