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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Recombinant Human MMP16 protein (His tag)

Catalog Number:PDEH100384

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

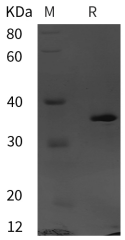
Description

Synonyms	Matrix metalloproteinase-16;MMP16;
Species	Human
Expression Host	E.coli
Sequence	Ala 151-Lys 450
Accession	P51512
Calculated Molecular Weight	32.9 kDa
Observed molecular weight	35 kDa
Tag	N-His & C-His

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



> 95 % as determined by reducing SDS-PAGE.

Background

Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix (ECM). MMP-16 (MT3-MMP) is found in brain, lung, placenta, smooth muscle cells, and malignant tumor tissues including oral melanoma and renal carcinoma . MMP-16 has been shown to activate proMMP-2 and degrade various ECM components including native collagens. MMP-16 has been proposed to possess the potential to directly enhance the growth and invasiveness of cells in vivo, two critical processes for development and carcinogenesis . Structurally, MMP-16 consists of the following domains: a pro domain containing the furin cleavage site, a catalytic domain containing the zinc-binding site, a hinge region, a hemopexin-like domain, a transmembrane domain, and a cytoplamasic tail . The structure of the catalytic domain in complex with a hydroxamate

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inhibitor has been solved . The rhMMP-16PC consists of the pro and catalytic domains, which can be activated by treatment with furin.

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