

Datasheet for ABIN7505288

MMP16 Protein (AA 151-450) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	MMP16
Protein Characteristics:	AA 151-450
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP16 protein is labelled with His tag.

Product Details

Sequence:	Ala 151-Lys 450
Characteristics:	A DNA sequence encoding the Human MMP16 protein (P51512) (Ala 151-Lys 450) was expressed with a N-His&C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MMP16
Alternative Name:	MMP16 (MMP16 Products)
Background:	Abbreviation: MMP16 Target Synonym: Matrix metalloproteinase-16,MMP16, 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

Target Details

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 cytoplasmic tail . The structure of the catalytic domain in complex with a hydroxamate inhibitor has been solved . The rhMMP-16PC consists of the pro and catalytic domains, which can be activated by treatment with furin.

Molecular Weight: Calculated MW: 32.89 kDa
Observed MW: 35 kDa

UniProt: [P51512](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months