Recombinant Human MMP19 protein (His Tag)

Catalog Number: PDEH101035

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

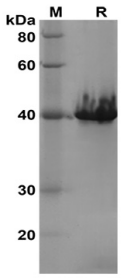
Description

Species	Human
Source	E.coli-derived Human MMP19 protein Leu101-Arg450, with an N-terminal His & C-terminal His
Calculated MW	38.4 kDa
Observed MW	41 kDa
Accession	Q99542
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
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 a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human MMP19 proteins, 2μg/lane of Recombinant Human MMP19 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 41 KD.

Background

MMP-19 (Matrix metalloprotease 19, also MMP-18 and MMP RASI) is a 55-59 kDa member of the peptidase M10A family of enzymes. It is widely expressed, being secreted by stratum basale keratinocytes, smooth muscle cells, epiphysial cartilage chondrocytes and monocytes/macrophages. MMP-19 has multiple substrates, including components of the basement membrane (type IV collagen, laminin, nidogen), fibronectin, aggrecan plus COMP, and IGFBP3, this latter cleavage resulting in the release of active IGF-I. Studies involving MMP-19 demonstrate an antiangiogenic function. This is attributable to the processing of plasminogen, generating angiostatin-like molecules, and the creation of an environment that promotes the ECM retention of soluble VEGF.