

Recombinant Human MMP2 protein (His tag)

Catalog No. PKSH033450

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

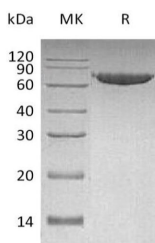
Description

Synonyms	72 kDa Type IV Collagenase, 72 kDa Gelatinase, Gelatinase A, Matrix Metalloproteinase-2, MMP-2, TBE-1, MMP2, CLG4A, CLG4, MMP-II, MONA, TBE-1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Cys660
Accession	P08253
Calculated Molecular Weight	72 kDa
Observed molecular weight	75 kDa
Tag	C-His
Bioactivity	Testing in progress

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°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.
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

For Research Use Only

72 kDa type IV collagenase also known as matrix metalloproteinase-2 (MMP-2) and gelatinase A is an enzyme that in humans is encoded by the MMP2 gene. It belongs to the matrix metalloproteinase (MMP) family. Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes such as morphogenesis; differentiation; angiogenesis and tissue remodeling; as well as pathological processes including inflammation; arthritis; cardiovascular diseases; pulmonary diseases and tumor invasion. MMP-2 is ubiquitous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature; angiogenesis; tissue repair; tumor invasion; inflammation; atherosclerotic plaque rupture; as well as degrading extracellular matrix proteins. MMP-2 can also act on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction. MMP-2 cleaves KISS at a Gly-I-Leu bond and appears to have a role in myocardial cell death pathways.