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MMP 3 Human

Catalog #:ENPS-291

For research use only.

Description:MMP-3 Human Recombinant produced in HEK293 cells is a proform of the Human MMP3 [Tyr18-Cys477 (Lys45Glu)] and fused with a ployhistide tag at the C-terminus, having an Mw of 52kDa. MMP-3 is purified by proprietary chromatographic techniques.

Synonyms: Stromelysin-1, EC 3.4.24.17, Matrix metalloproteinase-3, MMP-3, Transin-1, SL-1, STMY, STR1, STMY1, MGC126102, MGC126103, MGC126104.

Source:HEK293 cells.

Physical Appearance: Sterile Filtered colorless solution.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

The MMP-3 is supplied as a 0.2

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

MMP-3 enzyme is also known as Stromelysin-1or as Transin-1 which hydrolyzes natural collagen at physiological pH and temperature. It dissolves the intervertebral nucleus pulposus and annulus fibrosus of Herniated Lumbar Intervertebral Disk . MMP-3 hydrolyzes components of the extracellular matrix like proteoglycan, laminin, fibronectin, gelatin and collagen types III, IV and IX. It also activates pro-MMP-9 and pro-MMP-8 and superactivates plasmin activated MMP-1. MMP-3 is secreted as a latent proenzyme and is activated by a variety of proteinases, e.g. plasmin, trypsin, chymotrypsin, cathepsin G or human neutrophil elastase. MMP-3 was found to be capable of activating the precursor of IL1-beta.

Biological Activity:

The activity was measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is > 150 pmoles/min/

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