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MMP 1 Human

Description:MMP-1 Human Recombinant produced in HEK293 cells is a proform of the Human MMP1 (Met1-Asn469) and fused with a ployhistide tag at the C-terminus, having an Mw of 52kDa. MMP-1 is purified by proprietary chromatographic techniques.

Synonyms: Interstitial collagenase, Fibroblast collagenase, Matrix metalloproteinase-1, MMP-1, MMP1, CLG, CLGN.

Source:HEK293 cells.

Physical Appearance: Sterile Filtered colorless solution.

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

Formulation:
The MMP-1 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-1 (interstitial collagenase) can break down a wide range of substrates including types I, II, III, VII, VIII, and X collagens as well as L-Selectin, pro-TNF, IL-1, IGFBP-3, IGFBP-5, casein, gelatin, 1 antitrypsin, myelin basic protein, pro-MMP2 and pro-MMP9. A significant function of MMP-1 is the degradation of fibrillar collagens in extracellular matrix remodeling. MMP-1 is expressed in fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages. MMP1 can be divided into a number of distinct domains: a prodomain which is cleaved on activation, a catalytic domain containing the zinc binding site and a short hinge region with a carboxyl terminal domain. MMP1 is part of a cluster of MMP genes which localize to chromosome 11q22.3.

Biological Activity:
The activity was measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH2. The specific activity is > 400 pmoles/min/

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