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MMP 13 Human

Catalog #:ENPS-324

For research use only.

Description: Matrix Metalloproteinase-13 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 27 kDa.The Collagenase 3 is purified by proprietary chromatographic techniques.

Synonyms: Collagenase 3, EC 3.4.24.-, Matrix metalloproteinase-13, MMP-13, CLG3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The MMP-13 protein solution (100

Stability:
MMP-13 althoμgh stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent 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.

Applications:
Used as a standard for assaying MMP-13 or for screening inhibitors.

Introduction:
Latent recombinant human pro-collagenase (MMP-13) also called collagenase-3 truncated from C-terminal.Matrix Metalloproteinase-13 (MMP-13) is an enzyme that is a member of the MMP extracellular protease family. Extracellular protease enzymes, by virtue of their broad substrate specificities1, play a role in both normal and disease states of tissue proliferation. Among the targets of MMP-13 are collagen, gelatin, entactin, pro-TNF-a, and chemokine SDF-11-4.MMP-13 is found in its latent form as a 52-56 kDa glycosylated proenzyme. Upon cleavage the 22-46 kDa5 MMP-1 becomes active in extracellular matrix remodeling.Because of the prominent role that MMP-1 plays in cell migration and metastasis, it is an important target for inhibition screening.

Biological Activity:
Activity is determined by the cleavage of fluorogenic peptide, 50 ng of the MMP-13 enzyme will digest 75-80% (1.5-1.6 nmole) of fluorogenic peptide substrate (0.1ml of 20

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