

Product information



MMP3, 100-477aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2576

Full name: Matrix metalloproteinase 3

NCBI Accession No.: NP_002413

Synonyms: CHDS6, MMP-3, SL-1, STMY, STMY1, STR1

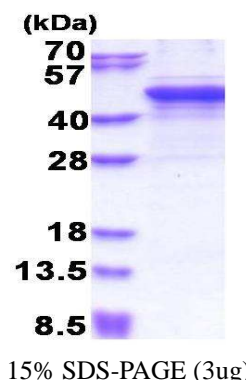
Description: Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP3 is an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. Recombinant human MMP3 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Molecular Weight: 45.2 kDa (401aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSFRTFPGI PKWRKTHLTY RIVNYTPDLP KDAVDSAVEK ALKWEEVTP LTF SRLYEGE ADIMISFAVR
EHGDFYPFDG PGNVLAHAYA PGPGINGDAH FDDDEQWTKD TTGTNLFLVA AHEIGHSLGL FHSANTEALM YPLYHSLTDL TRFRLSQDDI
NGIQSLYGPP PDSPEPLVP TEPVPEPGT PANCDPALSF DAVSTLRGEI LIFKDRHFWR KSLRKLEPEL HLISSEFWPSL PSGVDAAYEV
TSKDLVFIK GNQFWAIRGN EVRAGYPRGI HTLGFPTVR KIDAAISDKE KNKTYFFVED KYWRFDKRN SMEPGFKQI AEDFPGIDSK
IDAVFEFEGF FYFFTGSSQL EFDPNNAKVT HTLKSNSWLN C

General references:

Nagase H., *et al.* (1990) *Biochemistry*. 29:5783-5789

Ye S., *et al.* (1996) *J. Biol. Chem.* 271:13055-13060

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com