
Product Data Sheet

Product Name: MMP 3 Human
 Cat. No.: GP21936
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CHDS6; MMP-3; SL-1; STMY; STMY1; STR1; Stromelysin-1; Matrix metalloproteinase-3; Transin-1; MMP3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFRTFPGI PKWRKTHLTY RIVNYTPDLP KDAVDSAVEK ALKVWEEVTP LTFSRLYEGE ADIMISFAVR EHGDFYFPDG PGNVLAHAYA PGPGINGDAH FDDDEQWTKD TTGTNLFLVA AHEIGHSLGL FHSANTEALM YPLYHSLTDL TRFRLSQDDI NGIQSLYGPP PDSPETPLVP TEPVPEPGT PANCDPALSF DAVSTLRGEI LIFKDRHFWR KSLRKLEPEL HLISSFWPSL PSGVDAAYEV TSKDLVFIFK GNQFWAIRGN EVRAGYPRGI HTLGFPTVR KIDAAISDKE KNKTYFFVED KYWRFDEKRN SMEPGFPKQI AEDFPGIDSK IDAVFEEFGF FYFTGSSQL EFDPNAKKVT HTLKNSWLN C.		
Formulation	The MMP 3 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, and 10% glycerol.		

Introduction

MMP-3 enzyme is also known as Stromelysin-1 or 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MMP 3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (100-477a.a) and having a molecular mass of 45.2kDa. MMP 3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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