
Product Data Sheet

Product Name: MMP10 Human
 Cat. No.: GP21947
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SL-2; STMY2; Stromelysin-2; Matrix metalloproteinase-10; MMP-10; Transin-2; MMP10.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFSSFPGM PKWRKTHLTY RIVNYTPDLP RDAVDSAIEK ALKVWEEVTP LTFSRLYEGE ADIMISFAVK EHGDFYSFDG PGHSLAHAYP PGPGLYGDH FDDDEKWTEG ASGTNLFLVA AHELGHSLGL FHSANTEALM YPLYNSFTEL AQFRLSQDDV NGIQSLYGPP PASTEEPLVP TKSVPSEGSEM PAKCDPALSF DAISTLRGEY LFFKDRYFWR RSHWNPEPEF HLISAFWPSL PSYLDAAYEV NSRDTVFIFK GNEFWAIRGN EVQAGYPRGI HTLGFPTIR KIDAAVSDKE KKKTYFFAAD KYWRFDENSQ SMEQGFPRLI ADDFPGVEPK VDAVLQAFGF FYFFSGSSQF EFDPNARMVT HILKSNSWLH C.		
Formulation	The MMP10 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

Introduction

MMP10 (Matrix Metalloproteinase 10) which is a part of the matrix metalloproteinase (MMP) is activating procollagenase. MMP10 is part of a cluster of MMP genes which localize to chromosome 11q22.3. MMP10 takes part in the breakdown of extracellular matrix in normal physiological processes, like embryonic development, reproduction, and tissue remodeling, as also in disease processes, such as arthritis and metastasis. The majority MMP's are secreted as inactive proproteins that are activated when cleaved by extracellular proteinases. MMP10 encodes an enzyme which degrades proteoglycans and fibronectin.

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

MMP10 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (99-476a.a) and having a molecular mass of 45.4kDa. MMP10 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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