

PRODUCT DATASHEET

Matrix Metalloproteinase-3 Human HEK293

Cat. No.: RD172510100

Type: Recombinant

Size: 0.1 mg

Source: HEK293

Species: Human

Description

Total 466 AA. MW: 53.0 kDa (calculated). UniProtKB acc. No. P08254 (Tyr18–Cys477). C-terminal His-tag (6 AA). Protein identity confirmed by LC-MS/MS.

Other names

Stromelysin-1, SL-1, Transin-1, STMY1

Introduction to the molecule

Research topic

Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease, Oncology

Amino Acid sequence

YPLDGAARGE DTSMLNVQKY LENYYDLEKD VKQFVRRKDS GPVVKKIREM QKFLGLEVTG KLDSDTLEV M RKPRCGVPDV GHFRTFPGIP
KWRKTHLTYR IVNYTPDLPK DAVDSAVEKA LKVWEEVTPL TFSRLYEGEA DIMISFAVRE HGDFYFPDGP GNVLAHAYAP GPGINGDAH
DDDEQWTKDT TGTNLFLVAA HEIGHSLGLF HSANTEALMY PLYHSLDLDL RFRLSQDDIN GIQSLYGPPP DSPETPLVPT EPVPPEPGTP
ANCDPALSFD AVSTLRGEIL IFKDRHFWRK SLRKLEPELH LISSFWPSLP SGVDAAYEVT SKDLVFIFKG NQFWAIRGNE VRAGYPRGIH
TLGFPPTVRK IDAAISDKEK NKTYFFVEDK YWRFDEKRNS MEPGFPKQIA EDFPGIDSKI DAVFEEFGFF YFFTGSSQLE FDPNAKQVTH
TLKSNSWLNC HHHHHH

Purity

Purity as determined by densitometric image analysis: >95%

Endotoxin

< 1.0 EU/μg

Formulation:

Filtered (0.4 μm) and lyophilized from 0.5 mg/ml solution in phosphate buffered saline pH8.0 + 5% (w/v) Threalose.

Reconstituion:

Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -80°C . Lyophilized protein remains stable until the expiry date when stored at -80°C . Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality control

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

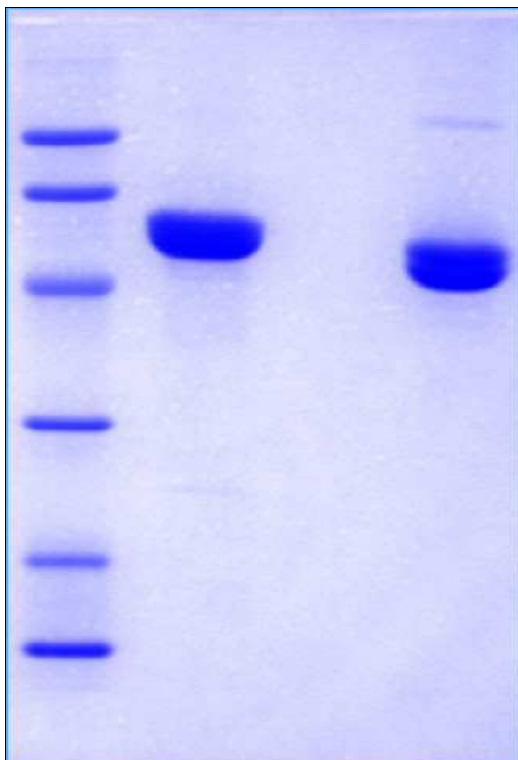
LAL to determine quantity of endotoxin.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.



12 % SDS-PAGE separation of Human Matrix Metalloproteinase-3:

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 $\mu\text{g}/\text{lane}$
3. Non-reduced and non-boiled sample, 2.5 $\mu\text{g}/\text{lane}$