BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno

Date of issue: 08.11.2017

PRODUCT DATASHEET

Metalloproteinase Inhibitor 1 Human HEK293

Cat. No.: RD172511100
Type: Recombinant
Size: 0.1 mg
Source: HEK293
Species: Human

Description

Total 190 AA. MW: 21.2 kDa (calculated). UniProtKB acc. No. P01033 (Cys24–Ala207). C-terminal His-tag (6 AA). Protein identity confirmed by LC-MS/MS.

Other names

Tissue inhibitor of metalloproteinases, EPA , TAK, Metalloproteinase Inhibitor 1, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, Collagenase inhibitor, Tissue inhibitor of metalloproteinases 1 TIMP-1, TIMP1, CLGI, TIMP

Introduction to the molecule

This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types and may also have an anti-apoptotic function.

Research topic

Others

Amino Acid sequence

CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRGFTKTY TVGCEECTVF PCLSIPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIAHHHHHH

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 pH7.5 + 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.

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.

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Quality control

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

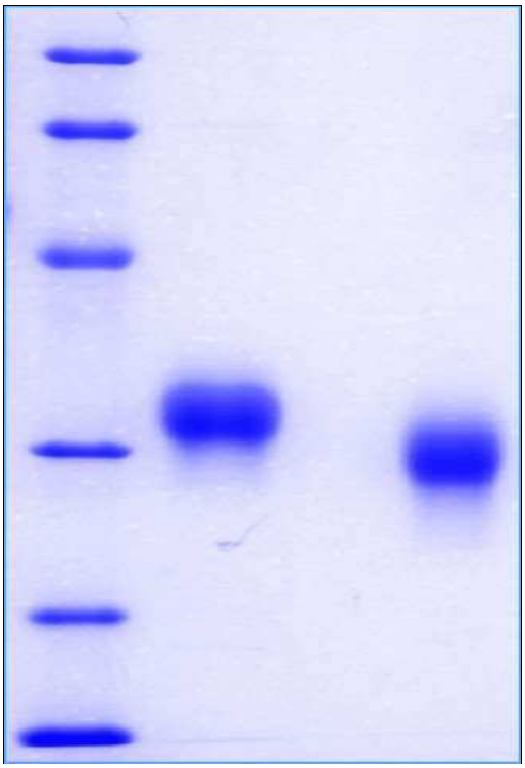
LAL to determine quantity of endotoxin.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.



12 % SDS-PAGE separation of Human Metalloproteinase Inhibitor 1:
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 µg/lane
3. Non-reduced and non-boiled sample, 2.5 µg/lane

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