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

Date of issue: 08.11.2017

PRODUCT DATASHEET

Matrix Metalloproteinase-2 Human HEK293

Cat. No.: RD172440100
Type: Recombinant
Size: 0.1 mg
Source: HEK293
Species: Human

Description

Total 637 AA. MW: 71.8 kDa (calculated). UniProtKB acc. No. P08253 (Ala30–Cys660). C-terminal His-tag (6 AA). Protein identity confirmed by LC-MS/MS.

Other names

Matrix metalloproteinase-2, Gelatinase A, TBE-1, 72 kDa type IV collagenase, 72 kDa gelatinase, Gelatinase A, MMP-2, TBE-1, PEX, MMP2 CLG4A

Introduction to the molecule

Research topic

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

Amino Acid sequence

APSPIIKFPG DVAPKTDKEL AVQYLNTFYG CPKESCNLFV LKDTLKKMQK FFGLPQTGDL DQNTIETMRK PRCGNPDVAN YNFFPRKPKW DKNQITYRII GYTPDLDPET VDDAFARAFQ VWSDVTPLRF SRIHDGEADI MINFGRWEHG DGYPFDGKDG LLAHAFAPGT GVGGDSHFDD DELWTLGEGQ VVRVKYGNAD GEYCKFPFLF NGKEYNSCTD TGRSDGFLWC STTYNFEKDG KYGFCPHEAL FTMGGNAEGQ PCKFPFRFQG TSYDSCTTEG RTDGYRWCGT TEDYDRDKKY GFCPETAMST VGGNSEGAPC VFPFTFLGNK YESCTSAGRS DGKMWCATTA NYDDDRKWGF CPDQGYSLFL VAAHEFGHAM GLEHSQDPGA LMAPIYTYTK NFRLSQDDIK GIQELYGASP DIDLGTGPTP TLGPVTPEIC KQDIVFDGIA QIRGEIFFFK DRFIWRTVTP RDKPMGPLLV ATFWPELPEK IDAVYEAPQE EKAVFFAGNE YWIYSASTLE RGYPKPLTSL GLPPDVQRVD AAFNWSKNKK TYIFAGDKFW RYNEVKKKMD PGFPKLIADA WNAIPDNLDA VVDLQGGGHS YFFKGAYYLK LENQSLKSVK FGSIKSDWLG CHHHHHH

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.

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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.

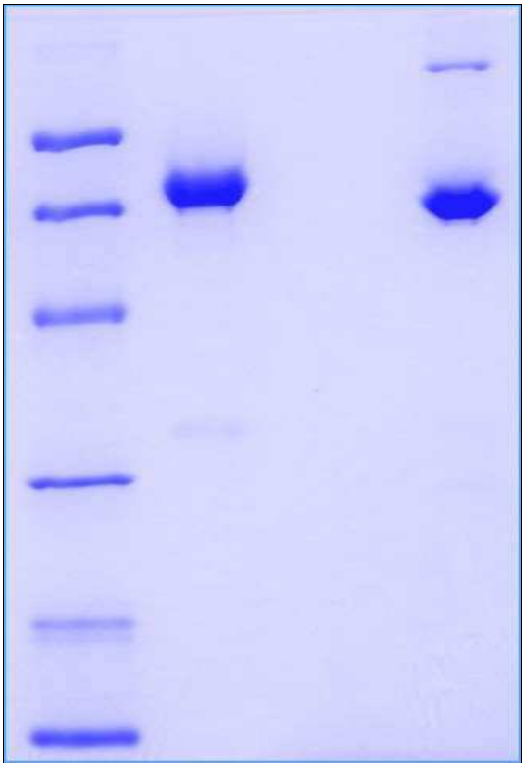
Quality control
BCA to determine quantity of the protein.

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-2:
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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