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

Date of issue: 04.12.2017

PRODUCT DATASHEET

Prohibitin Human E. coli

Cat. No.: RD172239100
Type: Recombinant
Size: 0.1 mg
Source: E. coli
Species: Human

Description
Total 282 AA. MW: 31 kDa (calculated). UniProtKB acc.no. P35232 (Met1-Gln272). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Other names
PHB

Introduction to the molecule
Prohibitin is a mitochondrial protein. It restrains DNA synthesis and takes part in proliferation regulation. It may play a role in aging and regulating mitochondrial respiration activity.

Amino Acid sequence
MKHHHHHHAS MAAKVFESIG KFGLALAVAG GVVNSALYNV DAGHRAVIFD RFRGVQDIVV GEGTHFLIPW VQKPIIFDCR SRPRNVPVIT GSKDLQNVNI TLRILFRPVA SQLPRIFTSI GEDYDERVLP SITTEILKSV VARFDAGELI TQRELVSRQV SDDLTERAAT FGLILDDVSL THLTFGKEFT EAVEAKQVAQ QEAERARFVV EKAEQQKKAA IISAEGDSKA AELIANSLAT AGDGLIELRK LEAAEDIAYQ LSRSRNITYL PAGQSVLLQL PQ

Purity
Purity as determined by densitometric image analysis: ≥ 90 %

Endotoxin
< 1.0 EU/ug

Formulation:
Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.02 M tris buffer, 0.05 M NaCl, pH 8.6

Reconstituion:
Add deionized water to prepare a working stock solution of approximately 0.25 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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

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Storage, Stability/Shelf Life
Store the 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.

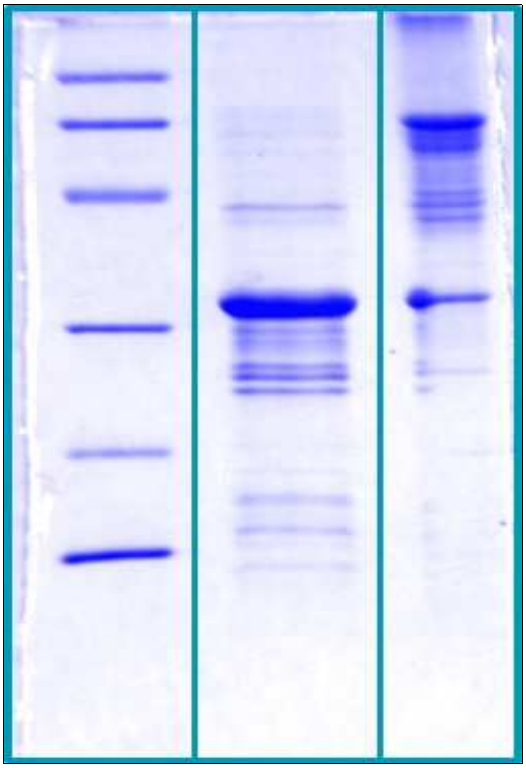
Quality control
BCA to determine quantity of the protein.

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



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

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