6-phosphogluconate dehydrogenase, decarboxylating Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: PGD, PGDH

Cat. No.:
RD172410100 (0.1 mg)

Description

Total 492 AA. MW: 54.2 kDa (calculated). UniProtKB acc.no. P52209 (Ala2-Ala483). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Research topic

Cardiovascular disease

Amino Acid Sequence

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MKHHHHHHAS AQADIALIGL AVMGQNLILN MNDHGFVVCA FNRTVSKVDD FLANEAKGTK VVGAQSLKEM VSKLKKPRRI
ILLVKAGQAV DDFIEKLVPL LDTGDIIIDG GNSEYRDTTR RCRDLKAKGI LFVGSGVSGG EEGARYGPSL MPGGNKEAWP
HIKTIFQGIA AKVGTGEPCC DWVGDEGAGH FVKMVHNGIE YGDMQLICEA YHLMKDVLGM AQDEMAQAFE DWNKTELDSF
LIEITANILK FQDTDGKHLL PKIRDSAGQK GTGKWTAISA LEYGVPVTLI GEAVFARCLS SLKDERIQAS KKLKGPQKFQ
FDGDKKSFLE DIRKALYASK IISYAQGFML LRQAATEFGW TLNYGGIALM WRGGCIIRSV FLGKIKDAFD RNPELQNLLL
DDFFKSAVEN CQDSWRRAVS TGVQAGIPMP CFTTALSFYD GYRHEMLPAS LIQAQRDYFG AHTYELLAKP GQFIHTNWTG
HGGTVSSSSY NA
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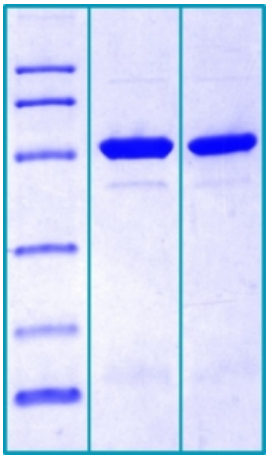
Source

E. coli

Purity

Purity as determined by densitometric image analysis: > 95%

SDS-PAGE gel



14 % SDS-PAGE separation of Human PGDH (E.coli):

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

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in phosphate buffered saline + 5 % (w/v) trehalose.

Reconstitution

Add 200 µl of 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 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 Test

BCA to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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