

Recombinant human DDAH1 protein

Catalog Number: ATGP0754

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-285aa

UniProt No.

O94760

NCBI Accession No.

NP_036269.1

Alternative Names

Dimethylarginine dimethylaminohydrolase 1, DDAH, DDAHI, Dimethylargininase-1

PRODUCT SPECIFICATION

Molecular Weight

33.5 kDa (308aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Dimethylarginine dimethylaminohydrolase 1, also known DDAH1, belongs to the dimethylarginine dimethylaminohydrolase gene family. The DDAH1 plays a role in nitric oxide generation by regulating cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity. Impairment of DDAH1 causes ADMA (asymmetric dimethylarginine) accumulation and a reduction in cGMP generation. Recombinant human DDAH1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant human DDAH1 protein

Catalog Number: ATGP0754

Amino acid Sequence

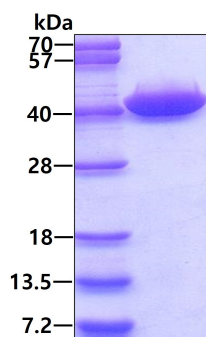
<MGSSHHHHHH SSGLVPRGSH MGS>MAGLGHP AAFGRATHAV VRALPESLGQ HALRSAKGEE VDVARAERQH
QLYVGVLSK LGLQVVELPA DESLPDCVFV EDVAVVCEET ALITRPGAPS RRKEVDMME ALEKLQNLIV EMKDENATLD
GGDVLFTGRE FFVGLSKRTN QRGAEILADT FKDYAVSTVP VADGLHLKSF CSMAGPNLIA IGSSESAQKA LKIMQQMSDH
RYDKLTPDD IAANCIYLN I PNKGHVLLHR TPEEYPESAK VYEKLDHML IPVSMSELEK VDGLLTCCSV LINKKVDS

General References

NaKagomi S., et al. (1999) Eur J Neurosci. 11:2160-2166.
Leiper J., et al. (2002) J Biol Chem. 276:40449-40456.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.