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.

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Amino acid Sequence

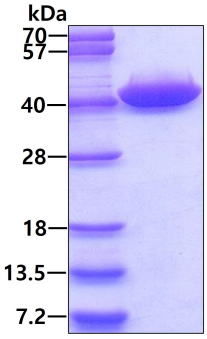
<MGSSHHHHHH SSGLVPRGSH MGS>MAGLGHP AAFGRATHAV VRALPESLGQ HALRSAKGEE VDVARAERQH QLYVGVLGSK LGLQVVELPA DESLPDCVFV EDVAVVCEET ALITRPGAPS RRKEVDMMKE ALEKLQLNIV EMKDENATLD GGDVLFTGRE FFVGLSKRTN QRGAEILADT FKDYAVSTVP VADGLHLKSF CSMAGPNLIA IGSSESAQKA LKIMQQMSDH RYDKLTVPDD IAANCIYLNI PNKGHVLLHR TPEEYPESAK VYEKLKDHML 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.