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## Recombinant human DDAH1 protein

Catalog Number: ATGP0754

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-285aa

#### **UniProt No.**

094760

#### **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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# **Recombinant human DDAH1 protein**

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## **Amino acid Sequence**

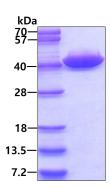
<MGSSHHHHHH SSGLVPRGSH MGS>MAGLGHP AAFGRATHAV VRALPESLGQ HALRSAKGEE VDVARAERQH QLYVGVLGSK LGLQVVELPA DESLPDCVFV EDVAVVCEET ALITRPGAPS RRKEVDMMKE ALEKLQLNIV EMKDENATLD GGDVLFTGRE FFVGLSKRTN QRGAEILADT FKDYAVSTVP VADGLHLKSF CSMAGPNLIA IGSSESAQKA LKIMQQMSDH RYDKLTVPDD IAANCIYLNI PNKGHVLLHR TPEEYPESAK VYEKLKDHML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

