

## Recombinant Human DDAH1, His-tagged

**Cat. No.** DDAH1-2846H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |   |
|---------------------------------|---|
| <b>Product Overview</b>         | Recombinant human DDAH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 33.5 kDa (308aa) confirmed by MALDI-TOF.  |
| <b>Species</b>                  | Human   |
| <b>Source</b>                   | E.coli  |
| <b>Description</b>              | 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. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MGSMAGLGHP AAFGRATHAV VRALPESLGQ<br>HALRSAKGEE VDVARAERQH QLYVGVLGSK LGLQVVELPA DESLPDCV FV<br>EDVAVVCEET ALITRPGAPS RRKEVDMME ALEKLQLNIV EMKDENATLD<br>GGDVLFTGRE FVGLSKRTN QRGAEILADT FKDYAVSTVP VADGLHLKSF<br>CSMAGPNLIA IGSSESAQKA LKIMQQMSDH RYDKLTPDD IAANCIYLN I<br>PNKGHVLLHR TPEEYPESAK VYEKLDHML IPVSMSELEK VDGLLTCCSV<br>LINKKVDS  |
| <b>Purity</b>                   | > 95% by SDS – PAGE.  |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM   |

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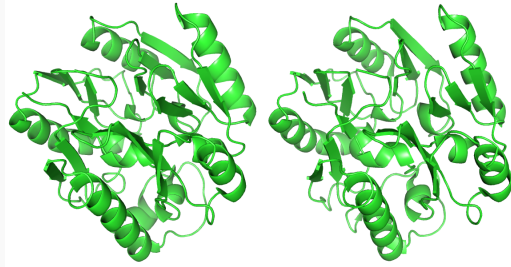
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|                            |   |
|----------------------------|---|
|                            | NaCl.   |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay).   |
| <b>Storage</b>             | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.   |
| <b>GENE INFORMATION</b>    |   |
| <b>Gene Name</b>           | DDAH1 dimethylarginine dimethylaminohydrolase 1 [ Homo sapiens ]  |
| <b>Synonyms</b>            | DDAH1; dimethylarginine dimethylaminohydrolase 1; DDAH; FLJ21264; FLJ25539; N(G),N(G)-dimethylarginine dimethylaminohydrolase 1; DDAHI; DDAH-1; dimethylargininase-1; NG, NG-dimethylarginine dimethylaminohydrolase; EC 3.5.3.18 |
| <b>Gene ID</b>             | 23576   |
| <b>mRNA Refseq</b>         | NM_001134445  |
| <b>Protein Refseq</b>      | NP_001127917  |
| <b>MIM</b>                 | 604743  |
| <b>UniProt ID</b>          | O94760  |
| <b>Chromosome Location</b> | 1p22  |
| <b>Function</b>            | catalytic activity; dimethylargininase activity; hydrolase activity; metal ion binding  |

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