

---

## Product Data Sheet

---

Product Name: DDAH1 Human  
 Cat. No.: GP21548  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DDAH; DDAH-1; Dimethylargininase-1; dimethylargininase-1; Dimethylarginine Dimethylaminohydrolase 1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGLGHP AAFGRATHAV VRALPESLGQ HALRSAKGEE VDVARAERQH QLYVGVLGSK LGLQVELPA DESLPDCVFV EDVAVVCEET ALITRPGAPS RRKEVDMME ALEKLQLNIV EMKDENATLD GGDVLFRTGRE FFVGLSKRTN QRGAEILADT FKDYAVSTVP VADGLHLKSF CSMAGPNLIA IGSSESAQKA LKIMQQMSDH RYDKLTPDD IAANCIYLN PNKGHVLLHR TPEEYPESAK VYEKLDHML IPVSMSELEK VDGLLTCCSV LINKKVDS		
Formulation	The DDAH1 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) 1mM DTT, 50mM NaCl and 10% glycerol.		

### Introduction

Dimethylarginine dimethylaminohydrolase 1, is a part of the Dimethylarginine Dimethylaminohydrolase gene family. DDAH1 participates in nitric oxide generation by regulating cellular concentrations of methylarginines, that in turn inhibit nitric oxide synthase activity. Deficiency of DDAH1 results in ADMA (asymmetric dimethylarginine) increase and a decrease in cGMP generation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DDAH1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 308

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

amino acids (1-285a.a.) and having a molecular mass of 33.5kDa.DDAH1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

***Caution: Product has not been fully validated for medical applications. For research use only.***

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***