



Recombinant human DDAH2 protein with GST tag (rhDDAH2-GST)

Catalog Number: 4002-100UG, 4002-500UG, 4002-1000UG

Produced and purified from E.coli

Product Description

Name: N(G),N(G)-dimethylarginine dimethylaminohydrolase 2 (DDAH2)

Synonyms: Dimethylargininase-2

Species: Human

Amino acids: 2 to 285

Predicted Molecular Weight: 29.5 kDa (55 kDa with GST tag)

Protein ID: O95865 (DDAH2_HUMAN)

AA Sequence:

MGTPGEGGLGRCSHALIRGVPESLASGEGAGAGLPALDLAKAQREHGVLGKLRQRLGLQLLELPPEESLPLGPLLGD
TA VIQGD TALITRPWSPARRPEVDGVRKALQDLGLRIVEIGDENATLDGTDVLF TGREFFVGLSKWTNHRGAEIVADTF
RDFAVSTVPVSGPSHLRGLCGMGGPRTVVAGSSDAAQKAVRAMAVLTDHPYASLTLPDDAAADCLFLRPGLPGVPP
FLLHRGGGDL PNSQEALQKLSDVTLVPVSCSELEKAGAGLSSSLCLV LSTRPHS*

**Recombinant proteins are expressed from synthetic genes. DAPCEL Inc. synthetic gene design technology provides highest protein quality in terms of protein folding and bioactivity.*

Product specifications

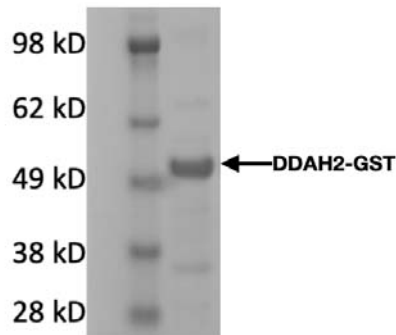
Estimated Molecular Weight, SDS-PAGE: 55 kDa (shown below).

Grade & Purity: >97%, (according to SDS-PAGE stained with SimplyBlue SafeStain, (Invitrogen)).

Endotoxins: Less than 0.1 ng/μg (1 IEU/μg), as measured by LAL method.

Bioactivity: N/A

Formulation: 1.0 mg/mL in 20mM Tris-HCl, 150mM NaCl pH 8.5; frozen.



Shipping

Product is shipped on dry ice. Upon receipt, store at -80°C.

Storage

To avoid loss of the protein, store the protein in aliquots at -80°C. Avoid repeated freeze-thaw cycles.

Stability

12 months from the date of receipt, stored at -20 to -80 °C as supplied.

Application Note: For research purposes only. Not for use in humans.

N(G),N(G)-dimethylarginine dimethylaminohydrolase 2, background information:

DDAH2 is believed to hydrolyze N(G),N(G)-dimethyl-L-arginine (ADMA) and N(G)-monomethyl-L-arginine (MMA) which act as inhibitors of NOS. Therefore, it is believed to have a role in the regulation of nitric oxide generation. However, its enzymatic activity is a subject of a debate.

1. Leiper J.M., *et al.*, *Biochem. J.* 343:209-214 (1999).