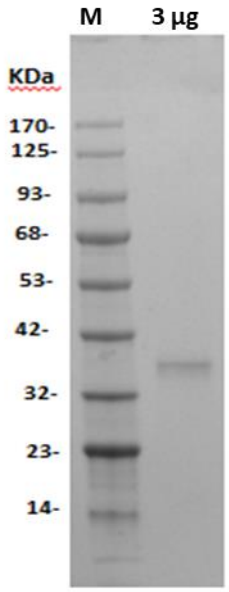
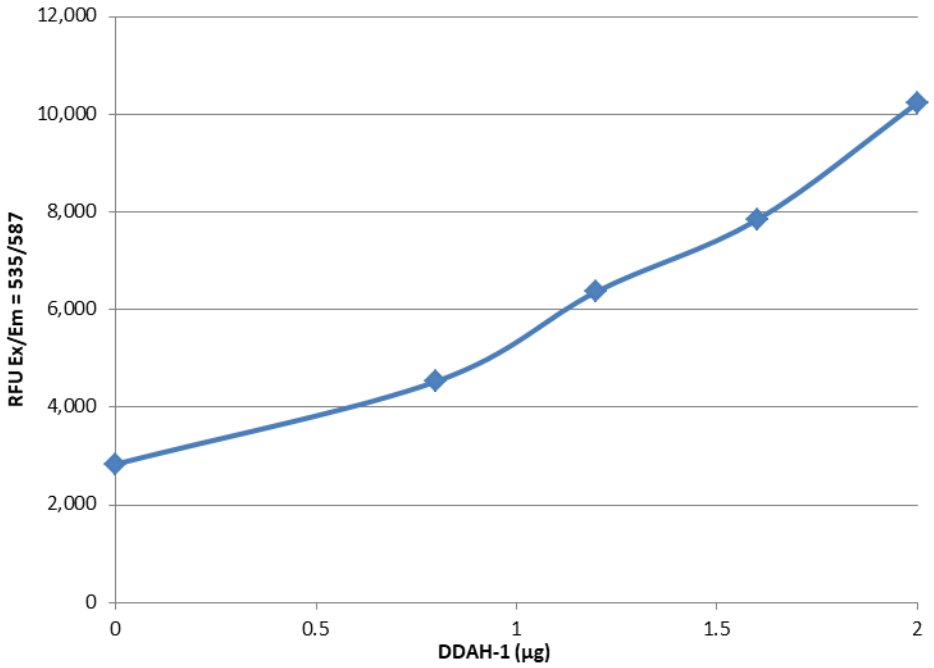
DDAH1, Human Recombinant

CATALOG NO:	P1583-10 10 µg P1583-50 50 µg
ALTERNATE NAMES:	DDAH-1, dimethylargininase-1
MOL. WT.	31.4 KDa
SOURCE:	*E. coli*
PURITY:	>95% SDS - PAGE
FORM:	Liquid
FORMULATION:	In 50 mM Tris Buffer PH 8.0, 100 mM NaCl, 1 mM EDTA, 35% Glycerol
SPECIFIC ACTIVITY:	≥5 mU/mg. Measured by its ability to hydrolyze asymmetric dimethylarginine to L-citrulline and dimethylamine by using BioVision's DDAH Activity Fluorometric Assay Kit (Catalog # K2051)
UNIT DEFINITION:	One unit of DDAH is defined as the amount of enzyme that hydrolyzes 1 µmol of asymmetric dimethyl arginine (ADMA) to L-citrulline per min at 37 °C under the assay conditions.
STORAGE CONDITIONS:	For long term storage, aliquot and store at -20 °C or -70 °C. Avoid repeated freezing and thawing cycles.
DESCRIPTION:	Dimethylarginine Dimethylaminohydrolase (DDAH) metabolizes asymmetric dimethyl arginine (ADMA) to L-citrulline and dimethylamine, and N^G-monomethyl arginine (MMA) to L-citrulline and monomethylamine. Two isoforms, DDAH1 and DDAH2 have been found in mammalian cells. DDAH1 is widely expressed, especially in liver and kidney. DDAH2 predominates in vascular endothelium and expressed selectively in the kidney. DDAH activity is critical in regulating NO synthesis *in vivo* by decreasing ADMA plasma concentration and impacting vascular health.
AMINO ACID SEQUENCE:	aa 2-285



SDS-PAGE (4-20%) recombinant DDAH-1: Recombinant DDAH1 protein was loaded under reducing conditions and stained with Coomassie Blue. Protein shows a mol. wt. of ~38 kDa under reducing conditions.



DDAH1 activity: Measured by its ability to hydrolyze asymmetric dimethylarginine to L-citrulline and dimethylamine by using BioVison's DDAH Activity Fluorometric Assay Kit (Catalog # K2051)

RELATED PRODUCTS:

- Human Recombinant Beta-Enolase (6364)
- Human Recombinant Neuron-Specific Enolase (NSE) (6362)
- Human Recombinant Alpha-Enolase (6363)

FOR RESEARCH USE ONLY! Not to be used on humans.