Recombinant Pseudomonas Aeruginosa PVDA Protein (1-443 aa), His-SUMO-tagged

Cat. No. PVDA-1916P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pseudomonas Aeruginosa (strain ATCC 15692/DSM 22644/CIP 104116/JCM 14847/LMG 12228/1C/PRS 101/PAO1) PVDA Protein (1-443 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	Pseudomonas Aeruginosa
Source	E.coli
ProteinLength	1-443 aa
Description	Catalyzes the conversion of L-ornithine to N(5)-hydroxyornithine, the first step in the biosynthesis of all hydroxamate-containing siderophores, such as pyoverdin. Pyoverdin is a hydroxamate siderophore composed of a 6,7-dihydroxyquinoline-containing fluorescent chromophore joined to the N-terminus of a partly cyclic octapeptide (D-Ser-L-Arg-D-Ser-L-N(5)-OH-Orn-L-Lys-L-N(5)-OH-Orn-L-Thr-L-Thr in strain PAO1). Specific for NADPH, which plays a role in stabilization of the C4a-hydroperoxyflavin intermediate.
Form	Tris-based buffer,50% glycerol
Molecular Mass	65.5 kDa
AA Sequence	MTQATATAVVHDLIGVGFGPSNIALAIALQERAQAQGALEVLFLDKQGDYRWHGNTL

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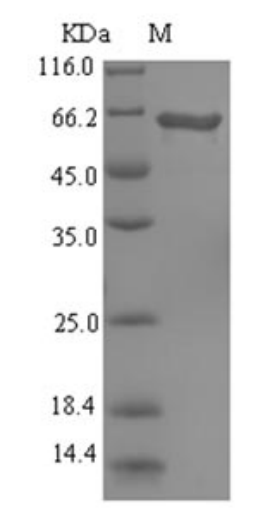
	VSQSELQISFLKDLVSLRNPTSPYSFVNYLHKHDRLVDFINLGTFYPCRMEFNDYLR WVASHFQEQSRYGEEVLRIEPMLSAGQVEALRVISRNADGEELVRTTRALVVSPGG TPRIPQVFRALKGDGRVFHHSQYLEHMAKQPCSSGKPMKIAIIGGGQSAAEAFIDLN DSYPSVQADMILRASALKPADDSPFVNEVFAPKFTDLIYSREHAERERLLREYHNTN YSVVDTDLIERIYGVFYRQKVSGIPRHAFRCMTTVERATATAQGIELALRDAGSGELS VETYDAVILATGYERQLHRQLLEPLAEYLGDHEIGRDYRLQTDERCKVAIYAQGFSQ ASHGLSDTLLSVLPVRAEEISGSLYQHLKPGTAARALHEHALAS	
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	pvdA L-ornithine N5-oxygenase [Pseudomonas aeruginosa PAO1]
Official Symbol	PVDA
Synonyms	pvdA; L-ornithine N(5)-hydroxylase L-ornithine N(5)-oxygenase Pyoverdin biosynthesis protein A;
Gene ID	882167

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Protein Refseq	NP_251076
UniProt ID	Q51548



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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