

PvdA Protein, Pseudomonas aeruginosa, Recombinant (His & SUMO)

General Information

Synonyms:	pvd-1;L-ornithine N(5)-monooxygenase;L-ornithine N(5)-hydroxylase (Ornithine hydroxylase);L-ornithine N(5)-oxygenase;pvdA;Pyoverdin biosynthesis protein A
Protein Construction:	1-443 aa
Species:	Pseudomonas aeruginosa
Expression Host:	E. coli
Accession:	Q51548
Molecular Weight:	65.5 kDa (predicted)
AA Sequence:	MTQATATAVVHDLIGVGFGPSNIALAIALQERAQAQGALEVLFLDKQGDYRWHGNTLVSQSELQISFLKDLVS LRNPTSPYSFVNYLHKHDLVDFINLGTFFPCRMEFNDYLRWVASHFQEQSRYGEEVLRIEPMLSAGQVEALR VISRNADGEELVRTRTRALVSPGGTTRIPQVFRALKGDGRVFHHSQYLEHMAKQPCSSGKPMKIAIIGGGQSA AEAFIDLNDSPVQADMILRASALKPADDSPFVNEVFAPKFTDLIYSREHAERERLLREYHNTNYSVVDTLI ERLYGVFYRQKVSGIPRHAFCMTTVERATATAQGIELALRDAGSGELSVETYDAVILATGYERQLHRQLLEPLA EYLGDEIGRDYRLQTDERCKVAIYAQGFSAQASHGLSDTLLSVLPVRAEEISGSLYQHLKPGTAARALHEHALA S

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Catalyzes the conversion of L-ornithine to N(5)-hydroxyornithine, the first step in the biosynthesis of all hydroxamate-containing siderophores, such as pyoverdine. Pyoverdine 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.

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