



Recombinant *Pseudomonas aeruginosa* L-ornithine 5-monooxygenase (pvdA)

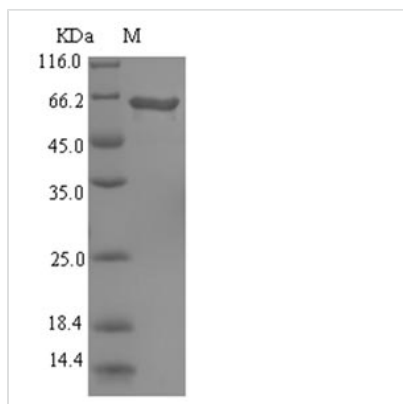
Product Code	CSB-EP706553EZ
Relevance	Catalyzes the conversion of L-ornithine to N(5)-hydroxyornithine, the first step in the biosynthesis of all hydroxamate-containing siderophores, such as pyoverdine. Pyoverdine is a hydroxamate siderophore composed of a 6,7-dihydroxyquinoline-containing fluorescent 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.
Abbreviation	Recombinant <i>Pseudomonas aeruginosa</i> pvdA protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q51548
Alias	L-ornithine N(5)-hydroxylase L-ornithine N(5)-oxygenase Pyoverdine biosynthesis protein A
Product Type	Recombinant Protein
Immunogen Species	<i>Pseudomonas aeruginosa</i> (strain ATCC 15692 / DSM 22644 / CIP 104116 / JCM 14847 / LMG 12228 / 1C / PRS 101 / PAO1)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MTQATATAVVHDLIGVGFGPSNIALAIALQERAQAQGALEVLFLDKQG DYRWH GNTLVSQSELQISFLKDLVSLRNPTSPYSFVNYLHKHDLVDFINLGTFFYPCRM EFNDYLRWVASHFQEQRSGYEEVLRIEPMLSAGQVEALRVISRNADGEELVRT TRALVVSPGGTPRIPQVFRALKGDGRVFFHHSQYLEHMAKQPCSSGKPMKIAII GGGQSAAEAFIDLNDSYPSVQADMILRASALKPADDSPFVNEVFAPKFTDLIYS REHAERERLLREYHNTNYSVVDTDLIERIYGVFYRQKVSGIPRHAFCMTTVE RATATAQGIELALRDAGSGELSVETYDAVILATGYERQLHRQLLEPLAEYLGDH EIGRDYRLQTDERCKVAIYAQGFSQASHGLSDTLLSVLPVRAEEISGSLYQHLK PGTAARALHEHALAS
Research Area	Others
Source	E.coli
Target Names	pvdA
Expression Region	1-443aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged



Mol. Weight 65.5kDa

Protein Length Full Length

Image



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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.