Peptide deformylase Protein, S. aureus (P.pastoris, His)

Cat. No.:	HY-P71767
Synonyms:	def; def1; pdf1Peptide deformylase; PDF; Polypeptide deformylase
Species:	Staphylococcus aureus
Source:	P. pastoris
Accession:	P68826 (1M-183V)
Gene ID:	/
Molecular Weight:	Approximately 25 kDa

PROPERTIES

AA Sequence	M L T M K D I I R D G H P T L R Q K A A E L E L P L T K E E K E T L I A M R E F L V N S Q D E E I A K R Y G L R S G V G L A A P Q I N I S K R M I A V L I P D D G S G K S Y D Y M L V N P K I V S H S V Q E A Y L P T G E G C L S V D D N V A G L V H R H N R I T I K A K D I E G N D I Q L R L K G Y P A I V F Q H E I D H L N G V M F Y D H I D K N H P L Q P H T D A V E V
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in20 mM Tris-HC1, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Peptide deformylase, a crucial enzyme in protein biosynthesis, plays a pivotal role in cellular processes by catalyzing the removal of the formyl group from the N-terminal methionine of newly synthesized proteins. While it requires at least a dipeptide for optimal efficiency, the enzyme displays broad specificity at positions beyond the N-terminal L-methionine. This activity ensures the proper maturation and functionality of proteins, highlighting the essential contribution of peptide deformylase in the intricate process of protein synthesis and modification.

Caution: Product has not been fully validated for medical applications. For research use only.

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