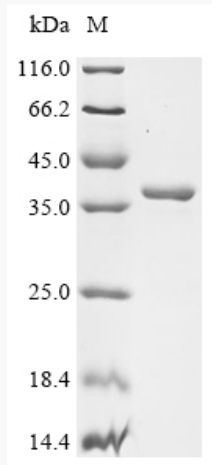


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## Certificate of Analysis

Product Name	Recombinant Escherichia coli O157:H7 Peptide deformylase (def)		
Catalog Number	AAA18692		
Expression host	E.coli		
Tag Info	N-terminal 6xHis-SUMO-tagged		
Buffer	Lyophilized from a 0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH8.0. The volume before lyophilization is 110μl/vial , 2vials.		
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℃/-80℃. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DD05007a4g0		
Nature	Escherichia coli O157:H7 def-(AA 2-169)- <b>P0A6K5</b> -Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week after reconstitution	
	Long term	-20 to -80 °C, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2024.03.19		
Test Items	Specifications		Results
Purity	≥90%,by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		97%
Molecular Weight	Predicted band size: 35.2 kDa		Observed band size: 36 kDa

<b>Electrophoretic parameters</b>	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
<b>Aseptic Processing</b>	<p>Lyophilized protein has been sterile filtered prior to lyophilization.</p> <p>However, the lyophilization process could potentially compromise sterility and please follow the instruction below if customers need a sterile filtered protein.</p> <p>Please sterile filter reconstituted lyophilized proteins with a 0.22µm filter in a clean bench (or other sterile environment) after reconstitution.</p> <p>Customers could use it as reference.</p>	
<b>Endotoxin Level</b>	<1.0 EU per 1µg of the protein by the LAL method.	pass
<b>Activity</b>	Not tested	
<b>Conclusion</b>	pass	

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**Datasheet**

<b>Product Name</b>	Recombinant Escherichia coli O157:H7 Peptide deformylase (def)
<b>Catalog Number</b>	AAA18692
<b>Expression host</b>	<i>E.coli</i>
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Buffer</b>	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH8.0. The volume before lyophilization is 110µl/vial , 2vials.
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Relevance</b>	Removes the formyl group from the N-terminal Met of newly synthesized proteins. Requires at least a dipeptide for an efficient rate of reaction. N-terminal L-methionine is a prerequisite for activity but the enzyme has broad specificity at other positions.
<b>AA sequence</b>	SVLQVLHIPDERLRKVAKPVEEVNAEIQRIVDDMFETMYAEEGIGLAATQVDIHQRIIVIDVSENORDERLVLINPE LLEKSGETGIEEGCLSIPEQRALVPRAEKVKIRALDRDGKPFLEADGLLAICIQHEMDHLVGKLFMDYLSPLKQQ RIRQKVEKLDRLKARA