

**Product Name: Recombinant Thermobifida Fusca Cutinase (C-6His)**  
**Catalog #: PEV0460**

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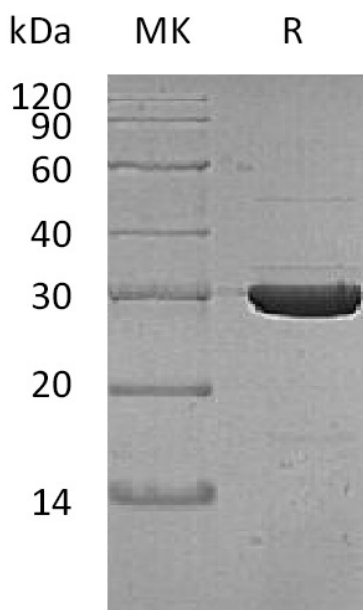
## Summary

<b>Name</b>	Cutinase
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Thermobifida Fusca Cutinase is produced by our E.coli expression system and the target gene encoding Ala1-Phe261 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	E5BBQ3
<b>Host</b>	E.coli
<b>Species</b>	Thermobifida fusca
<b>Predicted Molecular Mass</b>	29.5 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM HAc-NaAc, 50% Glycerol, 5% Mannitol, 0.02% Tween 80, pH4.5.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image

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### Alternative Names

Cutinase

### Background

Cutinase belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds. The systematic name of this enzyme class is cutin hydrolase. Cutinase is a serine esterase containing the classical Ser, His, Asp triad of serine hydrolases. The protein belongs to the alpha-beta class, with a central beta-sheet of 5 parallel strands covered by 5 helices on either side of the sheet. Cutin monomers released from the cuticle by small amounts of cutinase on fungal spore surfaces can greatly increase the amount of cutinase secreted by the spore. The active site cleft is partly covered by 2 thin bridges formed by amino acid side chains, by contrast with the hydrophobic lid possessed by other lipases. The protein also contains 2 disulfide bridges, which are essential for activity, their cleavage resulting in complete loss of enzymatic activity.

### Note

For Research Use Only , Not for Diagnostic Use.