

Thermobifida Fusca Cutinase Recombinant Protein

Recombinant Thermobifida Fusca Cutinase Protein (C-His)

CATALOG #
AAA174713

HOST
E Coli

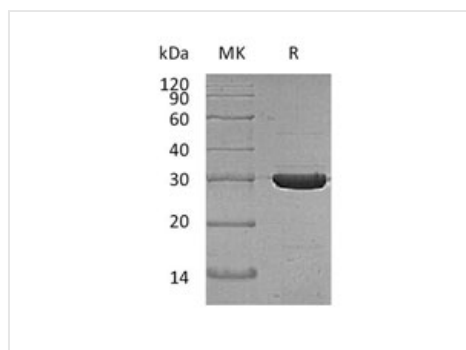
PRODUCT SYNONYMS

Thermobifida Fusca Cutinase; Recombinant Thermobifida Fusca Cutinase Protein (C-His); Cutinase; Thermobifida Fusca Cutinase recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% as determined by reducing SDS-PAGE.
Form/Format	Supplied as a 0.2 um filtered solution of PBS, 50% Glycerol, pH7.4.
Concentration	1.0mg/mL (varies by lot)
Sequence	Ala1-Phe26 1
Species	Thermobifida Fusca
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Fusion Tag	C-His
Preparation and Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Thermobifida Fusca Cutinase recombinant protein	Protein Construction: 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. 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.
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	E5BBQ3
Molecular Weight	Mol_Mass: 29.5 kDa AP_Mol_Mass: 28-30 kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/thermobifida-fusca-cutinase-recombinant-protein-e-coli/174713>