

Product datasheet for **TP727581**

T. fusca Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Thermobifida Fusca Cutinase(C-6xHis)
Species:	T. fusca
Expression cDNA Clone or AA Sequence:	Ala1-Phe261
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of PBS, 50% Glycerol, pH 7.4.
Note:	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.
Stability:	12 months from date of despatch
Summary:	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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