



IDI1 Protein Crystal

Catalog: CBCRY10

PRODUCT INFORMATION

Name	IDI1 Protein Crystal
Cat No.	CBCRY10
Fragment	Full length
Protein Description	Isopentenyl-diphosphate delta-isomerase 1
Background	<p>IDI1 encodes a peroxisomally-localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which are the substrates for the successive reaction that results in the synthesis of farnesyl diphosphate and, ultimately, cholesterol. It has been shown in peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy that there is reduction in IPP isomerase activity.</p>
Protein Classification	Isomerase
Structure Weight	56107.39 Da
Method	X-Ray Diffraction
Resolution	2.00 Å
Ligand Chemical Component	Acetic acid; Aminoethanolpyrophosphate; Magnesium ion; Manganese ion
Reference	Zhang, C., Liu, L., Xu, H., Wei, Z., Wang, Y., Lin, Y., Gong, W. (2007) Crystal structures of human IPP isomerase: new insights into the catalytic mechanism J.Mol.Biol. 366: 1437-1446