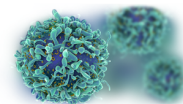


IDI1 Protein Crystal

Catalog: CBCRY10

PRODUCT INFORMATION

Product Name	IDI1 Protein Crystal
Catalog Number	CBCRY10
Fragment	Full length
Protein Description	Isopentenyl-diphosphate delta-isomerase 1
Background	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.
Protein Classification	Isomerase
Structure Weight	56107.39 Da
PDBID	2I6K
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
cDNA Length	765

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.