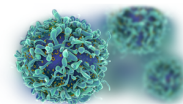


MASA Protein Crystal

Catalog: CBCRY26

PRODUCT INFORMATION

Product Name	MASA Protein Crystal
Catalog Number	CBCRY26
Fragment	Full length
Protein Description	Enolase-phosphatase E1
Background	Enolase-phosphatase E1 (MASA) is a bifunctional enzyme in the ubiquitous methionine salvage pathway that catalyzes the continuous reactions of 2,3-diketo-5-methylthio-1-phosphopentane to yield the aci-reductone metabolite using Mg ²⁺ as cofactor. In this study, we have determined the crystal structure of MASA and its complex with a substrate analog to 1.7Å resolution by multi-wavelength anomalous diffraction and molecular replacement techniques, respectively.
Protein Classification	Hydrolase
Structure Weight	29316.11 Da
PDBID	1ZS9
Method	X-Ray Diffraction
Resolution	1.7Å
Ligand Chemical Component	Selenomethionine



Reference	Wang, H., Pang, H., Bartlam, M., Rao, Z. (2005) Crystal Structure of Human E1 Enzyme and its Complex with a Substrate Analog Reveals the Mechanism of its Phosphatase/Enolase J.Mol.Biol. 348: 917-926
cDNA Length	855

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.