



SET7/9 Protein Crystal

Catalog: CBCRY57

PRODUCT INFORMATION

Product Name	SET7/9 Protein Crystal
Catalog Number	CBCRY57
Fragment	Residues 70-366
Protein Description	SET Domain Containing (Lysine Methyltransferase) 7
Background	Histone-lysine N-methyltransferase SETD7 belongs to histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. It plays a central role in the transcriptional activation of genes such as collagenase or insulin. It can be recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. SETD7 has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.
Protein Classification	Transferase
Structure Weight	33421.14 Da
PDBID	1N6C
Method	X-Ray Diffraction
Resolution	2.30 Å



Ligand Chemical Component	S-ADENOSYLMETHIONINE
Reference	Kwon T, Chang JH, Kwak E, Lee CW, Joachimiak A, Kim YC, Lee J, Cho Y. Mechanism of histone lysine methyl transfer revealed by the structure of set7/9-adomet. Embo J. (2003) 22 p.292
cDNA Length	1098

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.