



PDE10A Protein Crystal

Catalog: CBCRY50

PRODUCT INFORMATION

Product Name	PDE10A Protein Crystal
Catalog Number	CBCRY50
Fragment	Catalytic domain
Protein Description	Phosphodiesterase 10
Background	Phosphodiesterase 10A belongs to the cyclic nucleotide phosphodiesterase family. It plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This protein can hydrolyze both cAMP and cGMP to the corresponding nucleoside 5' monophosphate, but has higher affinity for cAMP, and is more efficient with cAMP as substrate.
Protein Classification	Hydrolase
Structure Weight	76792.17 Da
PDBID	2OUP
Method	X-Ray Diffraction
Resolution	1.56 Å
Ligand Chemical Component	Mg ²⁺ Zn ²⁺



Reference	Wang H, Liu Y, Hou J, Zheng M, Robinson H, Ke H. From the cover: structural insight into substrate specificity of phosphodiesterase 10. Proc.Natl.Acad.Sci.Usa (2007) 104 p.5782
cDNA Length	2337

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.