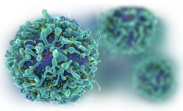

PDE2A Protein Crystal

Catalog: CBCRY48

PRODUCT INFORMATION

Product Name	PDE2A Protein Crystal
Catalog Number	CBCRY48
Fragment	Residues 215-900
Protein Description	Phosphodiesterase 2
Background	The phosphodiesterases (PDEs) are a superfamily of enzymes that metabolically inactivate cAMP and cGMP to play key roles in both these aspects of regulation. There are 11 PDE gene families, which differ broadly in specificity and affinity for cAMP and cGMP. An isoform PDE2A2 is supposed to regulates mitochondrial cAMP levels and respiration.
Protein Classification	Hydrolase
Structure Weight	158085.17 Da
PDBID	3IBJ
Method	X-Ray Diffraction
Resolution	3.02 Å
Ligand Chemical Component	Mg2+ Zn2+

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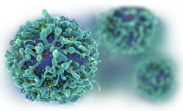

Reference	Pandit J, Forman MD, Fennell KF, Dillman KS, Menniti FS. Mechanism for the allosteric regulation of phosphodiesterase 2a deduced from the x-ray structure of a near full-length construct. Proc.Natl.Acad.Sci.Usa (2009) 106 p.18225
cDNALength	2823

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.

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