



GSK3b Protein Crystal

Catalog: CBCRY47

PRODUCT INFORMATION

Product Name	GSK3b Protein Crystal
Catalog Number	CBCRY47
Fragment	Full length
Protein Description	Glycogen Synthase Kinase 3 beta
Background	Glycogen synthase kinase-3 beta is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. It acts as a negative regulator in the hormonal control of glucose homeostasis, Wnt signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), EIF2B, CTNNB1/beta-catenin, APC, AXIN1, DPYSL2/CRMP2, JUN, NFATC1/NFATC, MAPT/TAU and MACF1.
Protein Classification	Transferase
Structure Weight	93983.28 Da
PDBID	1I09
Method	X-Ray Diffraction
Resolution	2.70 Å
Ligand Chemical Component	PO4-



Reference	Ter Haar E, Coll JT, Austen DA, Hsiao HM, Swenson L, Jain J. Structure of gsk3beta reveals a primed phosphorylation mechanism. Nat.Struct.Biol. (2001) 8 p.593
cDNA Length	1260

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.