



# GSK3b Protein Crystal

Catalog: CBCRY47

## PRODUCT INFORMATION

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**Name** GSK3b Protein Crystal

**Cat No.** 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, CTNBB1/beta-catenin, APC, AXIN1, DPYSL2/CRMP2, JUN, NFATC1/NFATC, MAPT/TAU and MACF1.

**Protein Classification** Transferase

**Structure Weight** 93983.28 Da

**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