



GSK3b Protein Crystal

Catalog: CBCRY47

PRODUCT INFORMATION

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