Recombinant Human Glycogen Synthase Kinase 3 Beta, His-tagged

Cat. No. GSK3B-1022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human GSK3B was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	GSK3B is a serine threonine protein kinase that was originally identified as the kinase that phosphorylates and inhibits glycogen synthase. GSK3B is ubiquitously present in human tissues and implicated in the regulation of several physiological processes, including the control of glycogen and protein synthesis by insulin, modulation of the transcription factors AP-1 and CREB.
Applications	Kinase Assay; Western Blot
Molecular Weight	48 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, PH 7.0, 300 mM NaCl, 150 mM imidazole, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	>90%

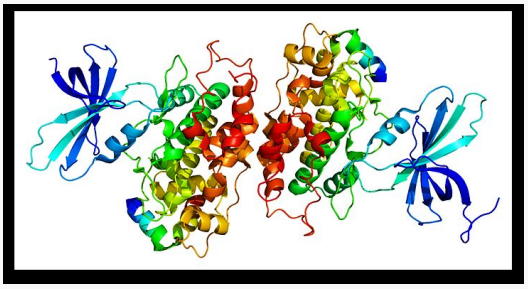
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Concentration	0.1 ug/ul
Specific Activity	190 nmol/min/mg
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	AKT phosphorylates targets in the cytosol; Aurora A signaling; Axon guidance; Axon guidance; B Cell Receptor Signaling Pathway; B cell receptor signaling pathway; BMP receptor signaling; Basal cell carcinoma; C-MYC pathway; CRMPs in Sema3A signaling; Cell cycle; Colorectal cancer; Delta-Notch Signaling Pathway; Endometrial cancer; Energy Metabolism

GENE INFORMATION

Gene Name	GSK3B glycogen synthase kinase 3 beta [Homo sapiens]
Official Symbol	GSK3B
Synonyms	GSK3B; glycogen synthase kinase 3 beta; glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; OTTHUMP00000165239; OTTHUMP00000165240
Gene ID	2932
mRNA Refseq	NM_002093
Protein Refseq	NP_002084

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MIM	605004
UniProt ID	P49841
Chromosome Location	3q13
Function	NF-kappaB binding; NF-kappaB binding; RNA polymerase II transcription factor binding; beta-catenin binding; kinase activity; nucleotide binding; p53 binding; protein binding; protein kinase A catalytic subunit binding; protein kinase binding; protein serine/threonine kinase activity; tau-protein kinase activity; ubiquitin protein ligase binding
PDBrendering based on 1gng.	

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