

Recombinant Human Glycogen Synthase Kinase 3 Beta, GST-tagged

Cat. No. GSK3B-1886H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full length GSK3B with N-terminal GST tag.
Species	Human
Source	Insect 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, and modulation of the transcription factors AP-1 and CREB. Transient transfection of human GSK3B into CHO cells stably transfected with individual human tau isoforms leads to hyperphosphorylation of tau at all the sites investigated with phosphorylation-dependent anti-tau antibodies.
Form	Liquid in 50 mM Tris-HCl, pH 7.5 + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol.
Molecular Weight	73 kDa
Purity	> 90% as determined by densitometry
Specific Activity	187 nmol/min/mg

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Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	GSK3B
Full Length	Full L.
GENE INFORMATION	
Gene Name	GSK3B glycogen synthase kinase 3beta [Homo sapiens]
Synonyms	GSK3B; glycogen synthase kinase3 beta; glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; OTTHUMP00000165239; OTTHUMP00000165240
Gene ID	2932
mRNA Refseq	NM_002093
Protein Refseq	NP_002084
MIM	605004
UniProt ID	P49841
Chromosome Location	3q13
Pathway	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

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Function

NF-kappaB binding; NF-kappaBbinding; RNA polymerase II transcription factor binding; beta-cateninbinding; kinase activity; nucleotide binding; p53 binding; protein binding;protein kinase A catalytic subunit binding; protein kinase binding; proteinserine/threonine kinase activity; tau-protein kinase activity; ubiquitinprotein ligase binding

PDBrendering based on 1gng.

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