

# Recombinant Human Glycogen Synthase Kinase 3 Beta, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human GSK3B was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	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.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	48 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	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.
<b>Purity</b>	>90%

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<b>Concentration</b>	0.1 ug/ul
<b>Specific Activity</b>	190 nmol/min/mg
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	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

<b>Gene Name</b>	<a href="#">GSK3B glycogen synthase kinase 3 beta [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GSK3B</a>
<b>Synonyms</b>	GSK3B; glycogen synthase kinase 3 beta; glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; OTTHUMP00000165239; OTTHUMP00000165240
<b>Gene ID</b>	<a href="#">2932</a>
<b>mRNA Refseq</b>	<a href="#">NM_002093</a>
<b>Protein Refseq</b>	<a href="#">NP_002084</a>

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<b>MIM</b>	605004
<b>UniProt ID</b>	P49841
<b>Chromosome Location</b>	3q13
<b>Function</b>	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
<b>PDBrendering based on 1gng.</b>	