

Recombinant Human GSK3 beta, Unactive, GST-tagged

Cat. No. GSK3B-1540H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human GSK3beta was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	Full length
Description	<p>GSK3β is a serine threonine protein kinase that was originally identified as the kinase that phosphorylate and inhibits glycogen synthase. GSK3β 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. Transient transfection of human GSK3 beta into Chinese hamster ovary cells stably transfected with individual human tau isoforms leads to hyperphosphorylation of tau at all the sites investigated with phosphorylation-dependent anti-tau antibodies.</p>
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~75 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 $\mu\text{g}/\mu\text{l}$
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; serine/threonine-protein kinase GSK3B;
Gene ID	2932
mRNA Refseq	NM_001146156
Protein Refseq	NP_001139628
MIM	605004
UniProt ID	P49841
Chromosome Location	3q13.3
Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Alzheimers disease, organism-specific

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biosystem; Alzheimers disease, conserved biosystem; Aurora A signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;

Function

ATP 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; protein serine/threonine kinase activity; tau-protein kinase activity; ubiquitin protein ligase binding;

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