

Recombinant Human GSK3B Protein, His-tagged

Cat. No. GSK3B-376H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GSK3B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	GSK3B, also known as glycogen synthase kinase-3 beta, acts as a negative regulator in the hormonal control of glucose homeostasis. Also, this protein has diverse functions as Wnt signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), EIF2B, CTNNB1/beta-catenin, APC, AXIN1, DPYSL2/CRMP2, JUN, NFATC1/NFATC, MAPT/TAU and MACF1.
Form	Liquid. In Phosphate Buffered Saline (pH7.4) containing 0.5mM PMSF and 30% glycerol.
Molecular Mass	47.5kDa (426aa)40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	MSGRPRTTSF AESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPDR PQEVSYTDTK VIGNGSFGVV YQAKLCDSGE LVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPIVIYVKL YMYQLFRSLA YIHSFGICHR DIKPQNLLLD PDTAVLKLCD FGSAKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV WSAGCVLAEL LLGQPIFPGD SGVDQLVEII KVLGTPTREQ IREMNPNYTE FKFPQIKAHP

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WTKVFRP RTP PEAIALCSRL LEYTPTARLT PLEACAH SFF DELRDPNVKL
 PNGRDTPALF NFFTQELSSN PPLATILIPP HARIQAAAST PTNATAASDA
 NTGDRGQTNN AASASASNST HHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Absorbance at 280nm)

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

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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 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;