

Recombinant Human glycogen synthase kinase 3 beta, His-tagged

Cat. No. GSK3B-406H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GSK3B, 1-420aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-420 a.a.
Description	GSK3B is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human GSK3B protein, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	46 kDa (420aa)
AA Sequence	MSGRPRTTSF AESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPDR PQEVSYTDTK VINGNSFGVV YQAKLCDSGE LVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPIYIVKL YMYQLFRSLA YIHSFGICHR DIKPQNLLLD PDTAVLKLCD

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FGSAKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV WSAGCVLAEL
 LLGQPIFPGD SGVDQLVEII KVLGTPREQ IREMNPNYTE FKFPQIKAHP
 WTKVFRP RTP PEAIALCSRL LEYTPARLT PLEACAHSFF DELRDPNVKL
 PNGRDTPALF NFFTQELSSN PPLATILIPP HARIQAAAST PTNATAASDA
 NTGDRGQTNN AASASASNST

Purity >85% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

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](#)

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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/thr

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