Recombinant Human GSK3B

Cat. No. GSK3B-28628TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human GSK3? expressed in E. coli cells using an N-terminaltag.
Species	Human
Source	E.coli
Description	The protein encoded by this gene 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.
Tissue specificity	Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.Contains 1 protein kinase domain.

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;
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; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Aurora A signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	ATP binding; NF-kappaB binding; RNA polymerase II transcription factor binding; beta-catenin binding; kinase activity;

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