

## Recombinant Human GSK3B

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

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full-length human GSK3 $\beta$ expressed in E. coli cells using an N-terminal tag.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>        | 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. |
| <b>Tissue specificity</b> | Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>            | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

**Similarities**

## 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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