

# Recombinant Human Glycogen Synthase Kinase 3 Alpha, His-tagged

Cat. No. GSK3A-1234H    Lot. No. (See product label)

## SPECIFICATION

|                  |                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant humanfull length GSK3A, His-tagged.                                                                                              |
| Species          | Human                                                                                                                                        |
| Source           | Insect Cells                                                                                                                                 |
| Description      | GSK3Ais a multifunctional protein serine/threonine kinase implicated in thecontrol of several regulatory proteins and transcription factors. |
| Form             | Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.5 mM EGTA + 0.05% NP-40 + 5 mMDDTT + 50% glycerol.                               |
| Molecular Weight | 53.7 kDa                                                                                                                                     |
| Storage          | Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                          |
| OfficialSymbol   | GSK3A                                                                                                                                        |
| Full Length      | Full L.                                                                                                                                      |

## GENE INFORMATION

|           |                                                        |
|-----------|--------------------------------------------------------|
| Gene Name | GSK3A glycogen synthase kinase 3alpha [ Homo sapiens ] |
|-----------|--------------------------------------------------------|

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | GSK3A; glycogen synthase kinase3 alpha; DKFZp686D0638; Glycogen synthase kinase-3 alpha; GSK-3 alpha; EC 2.7.11.26                                                                                                                                                                                                                                                                                                                        |
| <b>Gene ID</b>             | <a href="#">2931</a>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | <a href="#">NM_019884</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | <a href="#">NP_063937</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | <a href="#">606784</a>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P49840                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 19q13                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | AKT phosphorylates targets in the cytosol; Activation of Chaperones by IRE1alpha; B Cell Receptor Signaling Pathway; Chemokine signaling pathway; Diabetes pathways; Dopaminergic synapse; Downstream signal transduction; FOXM1 transcription factor network; GAB1 signalosome; Glycogen Metabolism; IL-3 Signaling Pathway; IL-5 Signaling Pathway; Insulin Signaling; PI-3K cascade; PI3K/AKT activation; PIP3 activates AKT signaling |
| <b>Function</b>            | ATP binding; protein binding; nucleotide binding; transferase activity; glycogen synthase kinase 3 activity; protein kinase A catalytic subunit binding; tau-protein kinase activity                                                                                                                                                                                                                                                      |

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