

Recombinant Mouse Gsk3b Protein, His-tagged

Cat. No. Gsk3b-1602M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gsk3b Protein (Lys122-Thr375) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Lys122-Thr375
Description	Enables several functions, including beta-catenin binding activity; dynein complex binding activity; and protein kinase activity. Involved in several processes, including apoptotic signaling pathway; negative regulation of signal transduction; and regulation of gene expression. Acts upstream of or within several processes, including cellular response to hepatocyte growth factor stimulus; positive regulation of nitrogen compound metabolic process; and regulation of neuron projection development. Located in several cellular components, including dendritic shaft; glutamatergic synapse; and postsynaptic density. Part of Wnt signalosome; beta-catenin destruction complex; and ribonucleoprotein complex. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; immune system; and sensory organ. Human ortholog(s) of this gene implicated in Alzheimer's disease; amyotrophic lateral sclerosis; bipolar disorder; and schizophrenia. Orthologous to human GSK3B (glycogen synthase kinase 3 beta).
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 32.6 kDa Accurate Molecular Mass: 33 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Gsk3b glycogen synthase kinase 3 beta [Mus musculus (house mouse)]
Official Symbol	Gsk3b
Synonyms	GSK3B; glycogen synthase kinase 3 beta; glycogen synthase kinase-3 beta; GSK-3 beta; serine/threonine-protein kinase GSK3B; GSK3; GSK-3; C86142; GSK-3beta; 7330414F15Rik; 8430431H08Rik;

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Gene ID	56637
mRNA Refseq	NM_019827
Protein Refseq	NP_062801
UniProt ID	E9QAQ5

