

Recombinant Rat Gsk3b Protein, His-tagged

Cat. No. Gsk3b-1603R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gsk3b Protein (Lys122-Thr375) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Lys122-Thr375
Description	Enables several functions, including ATP binding activity; protein kinase activity; and signaling receptor binding activity. Involved in several processes, including regulation of neuron projection development; regulation of synapse organization; and response to peptide. Located in several cellular components, including dendritic spine; membrane raft; and microtubule. Part of beta-catenin destruction complex. Is active in Schaffer collateral - CA1 synapse and glutamatergic synapse. Used to study several diseases, including middle cerebral artery infarction; myocardial infarction; neurodegenerative disease (multiple); sciatic neuropathy; and vascular dementia. Biomarker of several diseases, including artery disease (multiple); diabetic encephalopathy; mental depression; status epilepticus; and type 2 diabetes mellitus. 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 [Rattus norvegicus (Norway rat)]
Official Symbol	Gsk3b
Synonyms	GSK3B; glycogen synthase kinase 3 beta; glycogen synthase kinase-3 beta; FA; factor A; GSK-3 beta; serine/threonine-protein kinase GSK3B;
Gene ID	84027

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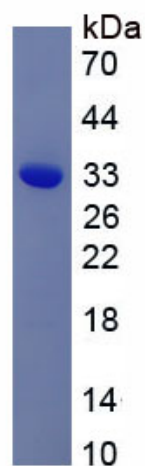
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mRNA Refseq NM_032080

Protein Refseq NP_114469

UniProt ID P18266



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