

Recombinant Human GSK-3 beta/GSK3B Kinase

Catalog No.: RP03407LQ

Sequence Information

Species **Gene ID**
Human 2932

Swiss Prot **Tags**
P49841 N-GST

Synonyms

GSK3B; GSK-3 beta; GSK3 beta;
GSK3β; Glycogen synthase kinase-
3 beta

Product Information

Source **Purification**
Baculovirus- ≥ 90 % as
Insect Cells determined by
 SDS-PAGE; ≥ 90
 % as determined
 by HPLC.

Calculated MWObserved MW
73.3 kDa 60-70 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Supplied as a 0.22 μm filtered
solution in 50 mM Tris-HCl, 150
mM NaCl, 5% glycerol, 5 mM DTT,
0.1 M Trehalose. (pH 7.5). Contact
us for customized product form or
formulation.

Reconstitution

Please use running water to thaw
it quickly.

Background

Glycogen synthase kinase-3 beta, (GSK-3 beta), is an enzyme that in humans is encoded by the GSK3B gene. Glycogen synthase kinase 3 (GSK-3) is a serine/threonine protein kinase that mediates the addition of phosphate molecules onto serine and threonine amino acid residues. In mammals, GSK-3 exists in two isozymes encoded by two homologous genes GSK-3α (GSK3A) and GSK-3β (GSK3B). GSK-3 has been the subject of much research since it has been implicated in a number of diseases, including type 2 diabetes, Alzheimer's disease, inflammation, cancer, addiction and bipolar disorder. GSK3B is involved in energy metabolism, neuronal cell development, and body pattern formation. It might be a new therapeutic target for ischemic stroke.

Basic Information

Description

Recombinant Human GSK-3 beta/GSK3B Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Thr420) of Human GSK3B (Accession #P49841) fused with a N-GST tag.

Activity

The activity of GSK3B is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

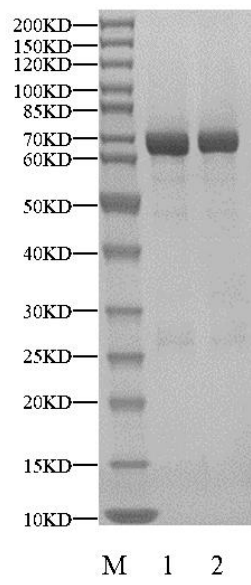
Contact

☎ | 400-999-6126

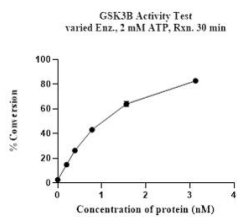
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Validation Data



Recombinant Human GSK-3 beta/GSK3B Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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