

Recombinant Human GSK-3 alpha/GSK3A Kinase

Catalog No.: RP03406LQ

Sequence Information

Species **Gene ID**
Human 2931

Swiss Prot **Tags**
P49840 N-GST

Synonyms

GSK3A; GSK-3 alpha; GSK3 alpha;
GSK3α; Glycogen synthase kinase-
3 alpha

Product Information

Source **Purification**
Baculovirus- ≥ 85% as
Insect Cells determined by
 SDS-PAGE; ≥
 85% as
 determined by
 HPLC.

Calculated MW **Observed MW**
77.5 kDa 70-85 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 alpha is an enzyme that in humans is encoded by the GSK3A 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 isoforms 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. GSK3A is a multifunctional protein serine kinase, homologous to Drosophila 'shaggy' (zeste-white3) and implicated in the control of several regulatory proteins including glycogen synthase and various transcription factors (e.g., JUN). It also plays a role in the WNT and phosphoinositide 3-kinase (especially PIK3CG) signaling pathways.

Basic Information

Description

Recombinant Human GSK-3 alpha/GSK3A Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Ser483) of Human GSK3A (Accession #P49840) fused with a N-GST tag.

Activity

The activity of GSK3A 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.

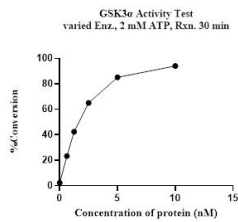
Contact

☎ | 400-999-6126

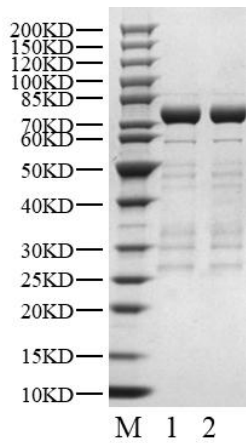
✉ | cn.market@abclonal.com.cn

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Validation Data



The activity of GSK3A 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.



Recombinant Human GSK-3 alpha/GSK3A Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.