

RP03406LQ

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Recombinant Human GSK-3 alpha/GSK3A Kinase

Catalog No.: RP03406LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	2931	P49840

Tags
N-GST

Synonyms
GSK3A; GSK-3 alpha; GSK3 alpha;
GSK3 α ; Glycogen synthase kinase-3
alpha

Product Information

Source	Purification
	\geq 85% as determined by SDS-PAGE; \geq 85% as determined by HPLC.

Endotoxin
< 1 EU/ μ g of the protein by LAL
method.

Formulation
Supplied as a 0.22 μ m 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.

Contact



www.abclonal.com

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 isozymes encoded by two homologous genes GSK-3 α (GSK3A) and GSK-3 β (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.

Bio-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.

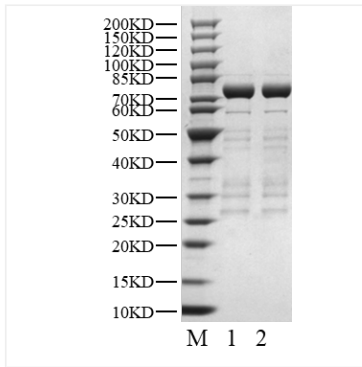
Shipping
The product is shipped at ambient temperature. Upon receipt, store it
immediately at the temperature recommended below.

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

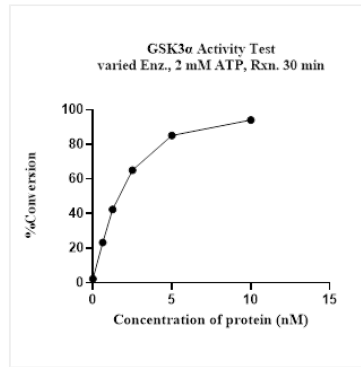
Storage
Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of
receipt. For optimal storage, aliquot into smaller quantities after centrifugation
and store at recommended temperature.
Aliquots below 10 μ L are not advisable. Product must not be stored in diluted
solutions. Avoid repeated freeze-thaw cycles.
Avoid repeated freeze/thaw cycles.

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

Validation Data



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



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