

GSK3 alpha Recombinant Protein | GSK3alpha recombinant protein

GSK3 alpha, Active

CATALOG # AAA73580	HOST Sf9 insect cells	APPLICATIONS Western Blot
------------------------------	---------------------------------	-------------------------------------

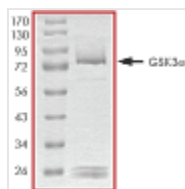
PRODUCT SYNONYMS

GSK3 alpha; Active; DKFZp686D0638; GSK3alpha recombinant protein

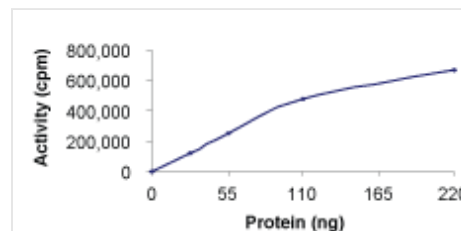
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Applicable Applications for GSK3alpha recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES


SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.


Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for GSK3alpha recombinant protein	Recombinant full-length human GSK3 alpha was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_019884. GSK3alpha 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 transcription factors (e.g., JUN)(1). GSK3alpha also plays a role in the WNT and PI3K signaling pathways. Alzheimer disease is associated with increased production and aggregation of amyloid-beta-40 and -42 peptides into plaques. GSK3alpha is required for maximal production of the beta-amyloid-40 and -42 peptides generated from the amyloid precursor protein by presenilin-dependent gamma-secretase cleavage. In vitro, lithium, a GSK3alpha inhibitor, blocks the production of the beta-amyloid peptides by interfering with the gamma-secretase step (2).
Product Categories/Family for GSK3alpha recombinant protein	Protein Kinases; AKT/PKB Pathway; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Inflammation; Invasion/Metastasis; Metabolic Disorder; Neurobiology; NfκB Pathway; Ser/Thr Kinases; WNT Signaling

References

1. Ali, A. et al: Glycogen synthase kinase-3 : properties, functions, and regulation. Chem. Rev. 101: 2527-2540, 2001.
2. Phiel, C J. et al: GSK-3-alpha regulates production of Alzheimer's disease amyloid-beta peptides. Nature 423: 435-439, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_019884](#)

Molecular Weight

~81kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/gsk3-alpha-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73580>