

Recombinant Human GSK3 alpha (N-GST tag)

Cat No:HR2R1478

For research use only

Overview

Quantity	10 ?g
Gene Symbol	GSK3a
Gene ID	N/A
Accession	NM_019884
Alternative Name	GSK3 alpha
Species	Human
Source	Insect cells
Description	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) . 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 .
Functions	The specific activity of GSK3a was determined to be 184 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	81
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?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.