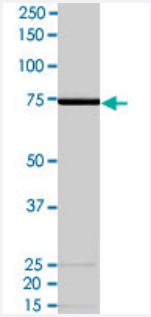
Bioactive Full-Length

GSK3B (Human) Recombinant Protein

Catalog # P4698 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human GSK3B (NP_001139628.1, 1 a.a.- 420 a.a.) full-length recombinant protein with GST-His tag expressed in Sf9 cells.
Sequence	MSGRPRTTSFAESCKPVQQPSAFGSMKVSRDKDGSKVTTVVATPGQGPDRPQEVSYTDTKVIG NGSFGVVYQAKLCDSGELVAIKKVLQDKRFKNRELQIMRKLDHCNIVRLRYFFYSSGEKKDEVYLN LVLDYVPETVYRVARHYSRAKQTLPVIYVKLYMYQLFRSLAYIHSFGICHRDIKPQNLLLDPDTAVLK LCDFGSAKQLVRGEPNVSYICSRYYRAPELIFGATDYTSSIDVWSAGCVLAELLLGQPIFPGDSGV DQLVEIIKVLGTPTREQIREMNPNYTEFKFPQIKAHPWTKVFRPRTPPEAIALCSRLLEYTPTARLTP LEACAHSFFDELRDPNVKLPNGRDTPALFNFTTQELSSNPPLATILIPPHARIQAAASTPTNATAAS DANTGDRGQTNNAASASASNST
Host	insect
Theoretical MW (kDa)	76.312

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Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST affinity chromatography
Concentration	0.276 ug/Ul
Activity	13 pmol/ug x min ATP-KM: 1.4 uM
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — GSK3B

Entrez GeneID	2932
Protein Accession#	NP_001139628.1
Gene Name	GSK3B
Gene Alias	-
Gene Description	glycogen synthase kinase 3 beta
Omim ID	605004
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene
Other Designations	GSK3beta isoform|glycogen synthase kinase-3 beta

Pathway

- Axon guidance
- B cell receptor signaling pathway
- Basal cell carcinoma
- Cell cycle
- Chemokine signaling pathway
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Focal adhesion
- Hedgehog signaling pathway
- Insulin signaling pathway
- Melanogenesis
- Neurotrophin signaling pathway
- Pathways in cancer
- Prostate cancer
- T cell receptor signaling pathway
- Wnt signaling pathway

Disease

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- Adenocarcinoma
- Alzheimer disease
- Amphetamine-Related Disorders
- Anorexia Nervosa
- Bipolar Disorder
- Bone Diseases
- Breast cancer
- Breast Neoplasms
- Bulimia
- Cardiovascular Diseases
- Cognition
- Dementia
- Depressive Disorder
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Drug Toxicity
- Dyskinesia
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Lung Neoplasms
- Mood Disorders
- Movement Disorders

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- Multiple Myeloma
- Neoplasm Invasiveness
- Parkinson disease
- Personality Disorders
- Personality Inventory
- Polycystic Ovary Syndrome
- Psychiatric Status Rating Scales
- Psychotic Disorders
- Pulmonary Disease
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Sleep Deprivation
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome

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