

AR51323PU-S

Human GSK3 beta (1-420, His-tag) - Purified

Alternate names:

GSK-3 beta, GSK3B, Glycogen synthase kinase-3 beta

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

GSK3B 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.

Uniprot ID:

[P49841](#)

NCBI:

[NP_001139628](#)

GeneID:

[2932](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human GSK3B protein, was expressed in E.coli.

AA Sequence:

MSGRPRTTSF AESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPD R PQEVSYTDTK
VIGNGSFGVV YQAKLCDSGE LVAIKKVLQD KRFRNRELQI MRKLDHCNIV RLRYFFYSSG
EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPVIIYVKL YMYQLFRSLA YIHSFGICHR
DIKPQNLLLD PDTAVLKLCD FGS AKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV
WSAGCVLAEL LLGQPIFPGD SGVDQLVEII KVLGTPTREQ IREMNPNYTE FKFPQIKAHP
WTKVFRPRT P PEALALCSRL LEYTPARLT PLEACAHSFF DELRDPNVKL PNGRDTPALF
NFTTQELSSN PPLATILIPP HARIQAAAST PTNATAASDA NTGDRGQTNN AASASASNST

Molecular weight: 46 kDa (420aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Guo X, Ramirez A, et al. (2008). Genes Dev. 22(1):106-20.

Espinosa L, Inglés-Esteve J, et al. (2003). J Biol Chem. 278(34):32227-35.

Pictures:

