

AR51976PU-N

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

Alternate names:

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

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by absorbance at 280nm)

Background:

GSK3B, also known as glycogen synthase kinase-3 beta, acts as a negative regulator in the hormonal control of glucose homeostasis. Also, this protein has diverse functions as Wnt signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), EIF2B, CTNNB1/beta-catenin, APC, AXIN1, DPYSL2/CRMP2, JUN, NFATC1/NFATC, MAPT/TAU and MACF1. Recombinant human GSK3B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Uniprot ID:

[P49841](#)

NCBI:

[NP_001139628](#)

GeneID:

[2932](#)

Species:

Human

Source:

Insect cells

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: Phosphate Buffered Saline (pH7.4) containing 0.5mM PMSF and 30% glycerol.

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description:
AA Sequence:

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

Molecular weight: 47.5 kDa (426aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

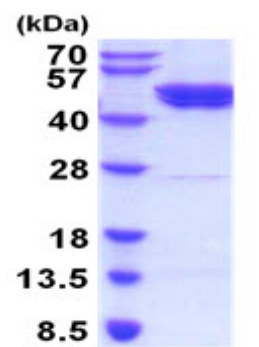
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Desai SS., et al. (2014) J. Biol. Chem. 289(9):5386-5398. Cheng DD., et al. (2014) Biochem. Biophys. Res. Commun. 443(2):598-603.

Pictures:



15% SDS-PAGE (3ug)