

Glycogen synthase kinase-3 beta, 1-420aa, Human, His tag, Insect cell

Cat.NO.: TP02274

3th Edition

Synonyms:GSK-3 beta, Serine/threonine-protein kinase GSK3B

Description: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.

Form:Liquid. In Phosphate Buffered Saline (pH7.4) containing 0.5mM PMSF and 30% glycerol.

Molecular Weight:47.5kDa (426aa) 40-57KDa (SDS-PAGE under reducing conditions.)

Sequences:

MSGRPRTTSFAESCKPVQQPSAFGSMKVS RDKDGSKVTTVVATPGQGPDRPQEVSYTDTKVIGNGSFGVVYQAK
LCDSGELVAIKKVLQDKRFKNRELQIMRKLDHCNIVRLRYFFYSSGEKKDEVYLNVLVDYVPETVYRVARHYSRAKQ
TLPVIYVKLYMYQLFRSLAYIHSFGICHRDIKPQNLLDPDTAVLKLCDFGSAKQLVRGEPNVSYICSRYRRAPELIFG
ATDYTSSIDVWSAGCVLAELLGQPIFPGDSGVDQLVEIKVLGTPTREQUIREMNPNYTEFKFPQIKAHPWTKVFRPR
TPPEAIALCSRLL EYTPARLTPLEACAHSFFDEL RDPNVKLPNGRDTPALFNFTTQELSSNPPLATILIPPHARIQAA
ASTPTNATAASDANTGDRGQTNNAASASASNSTHHHHHH

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Absorbance at 280nm)

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

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.