

Recombinant human GSK-3 beta protein

Catalog Number: ATGP3221

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-420aa

UniProt No.

P49841

NCBI Accession No.

NP_001139628.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

47.5 kDa (426aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 0.5mM PMSF and 30% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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human GSK3B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MSGRRPTTSF AESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPDR PQEVSYTDTK VIGNGSFGVV YQAKLCDSGE
LVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPIYVKL
YMYQLFRSLA YHSFGICHR DIKPQNLLLD PDTAVLKLCD FGS AKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV
WSAGCVLAEL LLGQPIFPGD SGVDQLVEII KVLGTPTREQ IREMNPNYTE FKFPQIKAHP WTKVFRP RTP PEAIALCSRL
LEYTPARLT PLEACAHSFF DELRDPNVKL PNGRDTPALF NFFTQELSSN PPLATILIPP HARIQAAAST PTNATAASDA
NTGDRGQTNN AASASASNST <HHHHHH>

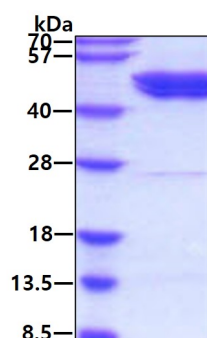
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.