

Recombinant human GSK-3 beta protein

Catalog Number: ATGP2503

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-420aa

UniProt No.

P49841

NCBI Accession No.

NP_001139628

Alternative Names

Glycogen synthase kinase 3 beta isoform 2, GSK-3 beta, Glycogen synthase kinase-3 beta

PRODUCT SPECIFICATION

Molecular Weight

46 kDa (420aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE, Denatured

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

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Amino acid Sequence

MSGRPRTTSF AESCKPVQQP SAFGSMKVS R DKGSKVTTV VATPGQGPDR PQEVSYTDK VIGNGSFGVV YQAKLCDSGE
LVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPIYVKL
YMYQLFRSLA YIHSFGICHR DIKPQNLLLD PDTAVLKLCD FGS AKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV
WSAGCVLAEL LLGQPIFPGD SGVDQLVEII KVLGTPTREQ IREMNPNYTE FKFPQIKAHP WTKVFRPRTP PEAIALCSRL
LEYTP TARLT PLEACAHSFF DELRDPNVKL PNGRDTPALF NFFTQELSSN PPLATILIPP HARIQAAAST PTNATAASDA
NTGDRGQTNN AASASASNST

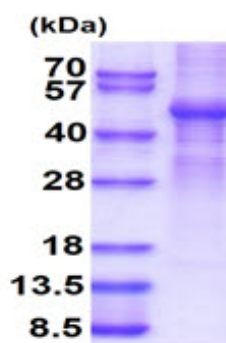
General References

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

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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