

# Recombinant human GSK-3 beta protein

Catalog Number: ATGP2503

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

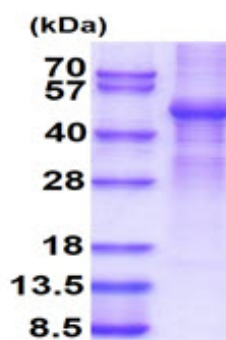
MSGRRPTTSF AESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPDR PQEVSYTDTK VINGNSFGVW YQAKLCDSGE  
LVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAK QTLPIYVVKL  
YMYQLFRSLA YIHSFGICHR DIKQNL LLD PDTAVLKLCD FGS AKQLVRG EPNVSYICSR YYRAPELIFG ATDYTSSIDV  
WSAGCVLAEL LLGQPIFPGD SGVDQLVEII KVLGTPTREQ IREMNPNYTE FKFPQIKAHP WTKVFRPRTP PEAIALCSRL  
LEYTPARLT 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



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

15% SDS-PAGE (3ug)