



### Synonym

GSK3B, Glycogen synthase kinase-3 beta

### Source

Human GSK-3beta, His Tag(GSB-H5545) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Thr 420 (Accession # [P49841-1](#)).

Predicted N-terminus: Met 1

### Molecular Characterization

Poly-his

GSK-3beta(Met 1 - Thr 420)  
P49841-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 48.8 kDa. The protein migrates as 49-53 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

### Formulation

Supplied as 0.2  $\mu$ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

### Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

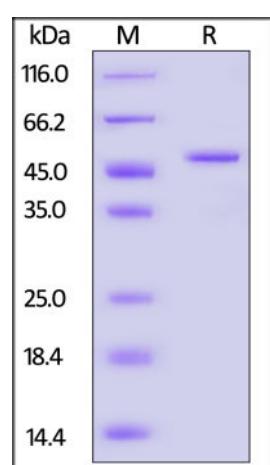
### Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

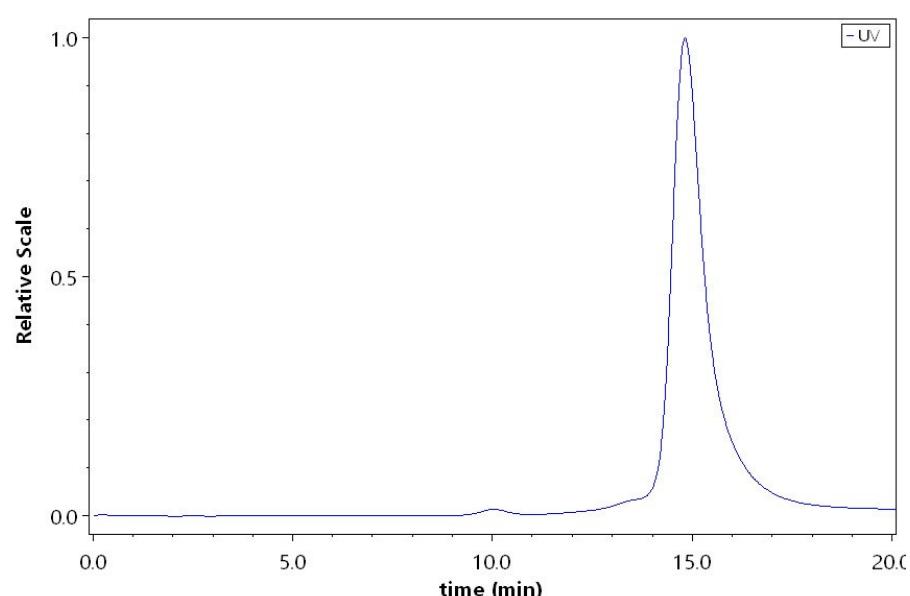
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

### SDS-PAGE



Human GSK-3beta, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

### SEC-HPLC



The purity of Human GSK-3beta, His Tag (Cat. No. GSB-H5545) was greater than 90% as determined by SEC-HPLC.

### Bioactivity

The specific activity of GSK-3beta was determined to be >120 pmol/min/ug by ADP-Glo™ Kinase Assay using a synthetic substrate (YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE) (QC tested).

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## Background

Glycogen synthase kinase-3 (GSK-3) is a pivotal molecule in the development of Alzheimer's disease (AD). GSK-3beta is involved in the formation of paired helical filament (PHF)-tau, which is an integral component of the neurofibrillary tangle (NFT) deposits that disrupt neuronal function, and a marker of neurodegeneration in AD.

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