

**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
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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 μg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

**Formulation**

Supplied as 0.2 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

**Shipping**

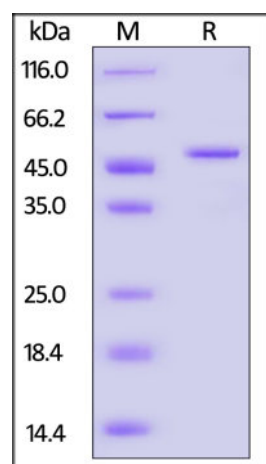
*This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.*

**Storage**

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

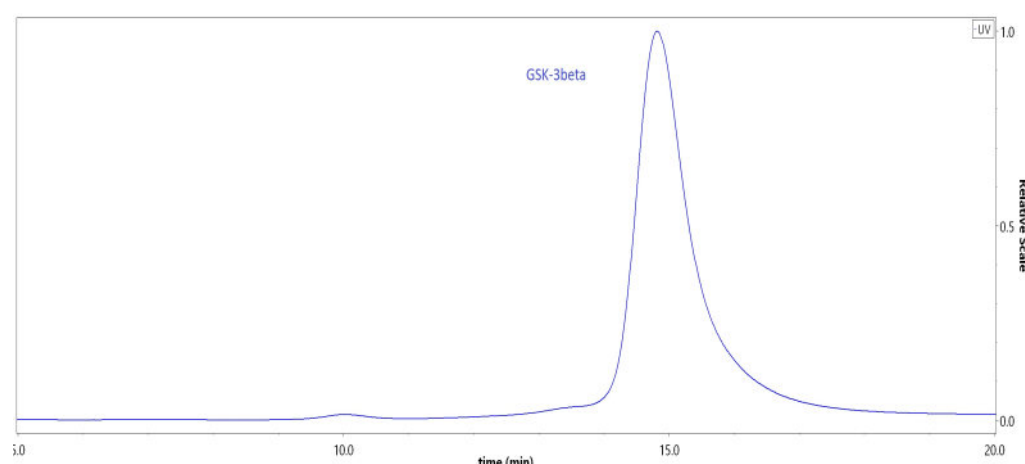
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

**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%.

**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).

**SEC-HPLC**

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

**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.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.