Human GSK3B (His Tag) recombinant protein

Catalog Number: 501929

General Information

Gene Name Synonym

Serine/threonine-protein kinase GSK3B

Protein Construction

The amino acids corresponding to the full length of human GSK3B isoform 1 (NP_002084.2) (Met 1-Thr 433) was fused with a polyhistidine tag at the N-terminus.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

1. The specific activity was determined to be 45 nmol/min/mg using synthetic Phospho-Glycogen Synthase Peptide-2 (YRRAAVPPSPSLSRHSSPHQpSEDEEE) as substrate.
2. Immobilized His-GSK3B at 10 μg/ml (100 μl/well) can bind biotinylated human HG3C-CTNNB1 (cat:502916), EC_{50} of biotinylated human HG3C-CTNNB1 (cat:502916) is 0.15-0.35 μg/ml.

Purity

> 90 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Met

Molecular Mass

The recombinant human GSK3B consists of 452 amino acids and predicts a molecular mass of 50.4 kDa. The apparent molecular mass of rhGSK3B is approximately 44-48 kDa in SDS-PAGE under reducing conditions.

Formulation

Supplied as sterile 20mM Tris, 500mM NaCl, pH 7.4, 25% glycerol, 0.5mM PMSF, 0.5mM EDTA
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

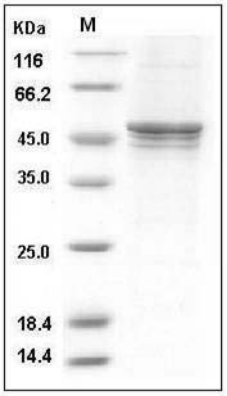
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human GSK3B Protein (His Tag) SDS-PAGE