
Product Data Sheet

Product Name: GSK3B Human, sf9

Cat. No.: GP22521

Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B. | | |
| Amino Acid Sequence | MSGRPRTTSFAESCKPVQQP SAFGSMKVS R DKDGSKVTTV VATPGQGPDR PQEVS YTDTK VINGSGFVV YQAKLCDSGELVAIKKVLQD KRFKNRELQI MRKLDHCNIV RLRYFFYSSG EKKDEVYLN L VLDYVPETVY RVARHYSRAKQTLPIYVKL YMYQLFRSLA YIHSFGICHR DIKPQNLLLD PDTAVLKLCD FGS AKQLVRG EPNVSYICSRYYRAPELIFG ATDYTSSIDV WSAGCVLAE L LLGQPIFP GD SGVDQLVEII KVLGTP TREQ IREMNP NYTEFKFPQ IKAHP WTKVFRPRTP PEAIALCSRL LEYTP TARLT PLEACAHSFF DELRDPNVKL PNGRDT PALF NFFTQELSSNPPLATILIPP HARIQAAAST PTNATAASDA NTGDRGQ TNN AASASASNST HHHHHH. | | |
| Formulation | GSK3B protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH7.4), 0.5mM PMSF and 30% glycerol. | | |

Introduction

GSK3B is a serine-threonine kinase that belongs to the glycogen synthase kinase subfamily. GSK3B is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in the GSK3B gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of the GSK3B gene may be significant to the pathogenesis of Alzheimer disease.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

GSK3B produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 426 amino acids (1-420 a.a.) and having a molecular mass of 47.5 kDa (Migrates at 40-57 kDa on SDS-PAGE under reducing conditions).

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