

GSK3B

Recombinant Human Glycogen Synthase Kinase (Met₁-Thr₄₂₀) 3 beta Active GST-His

Catalog No.	CSI11182	Quantity:	50 µg
Alternate Names:	GSK3beta isoform, glycogen synthase kinase-3 beta		
Description:	Human GSK3, full length, amino acids M ₁ -T ₄₂₀ (as in NCBI/Protein entry NP_001139628.1), N-terminal GST-HIS ₆ fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells		
Concentration:	0.276 µg/µl		
Gene ID:	2932		
Protein Accession No:	NP_001139628.1		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 76,312 Da		
Formulation:	50 mM HEPES pH 7.5 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	GSK3-beta was confirmed as GSK3-beta by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	13 pmol/µg×min ATP-K _M : 1.4 µM		

Method for determination of K_m value and specific activity:

- Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
50 µg / ml PEG_{20,000}
ATP (variable)
Substrate: RBER-IRStide, 40 µg / ml
GSK3-beta: 2.0 µg / ml
- Filter binding assay
MSFC membrane (Millipore)

Amino Acid Sequence:



Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

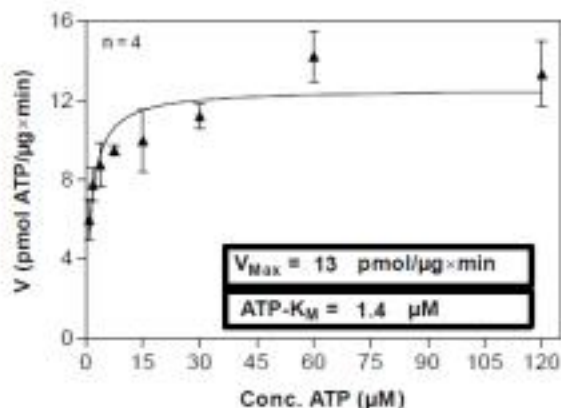
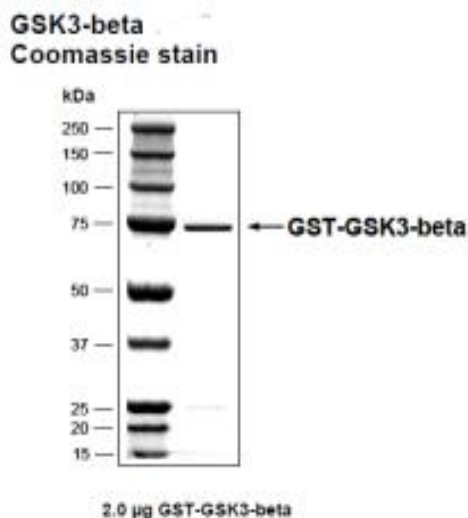
Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com

MSPILGYWKI KGLVQPTRL LLEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWQATF GGGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD
 GIYAREMSGR PRTTSFAESC KPVQQPSAFG **SMKVS**RDKDG **SKVTT**TVATP
GQGPDRPQEV SYTDTKVIGN GSFGVVYQAK LCDSGELVAI KKVLDQDKRFK
 NRELQIMRKL DHCNIVRLRY FFYSSGEKKD EVYLNVLVDY VPETVYRVAR
 HYSRAKQTL PVIYVKLYMYQ LFRSLAYIHS FGICHRDIKP QNLLDPDTA
 VLKLCDFGSA KQLVRGEPNV SYICSRYIRA PELIFGATDY TSSIDVWSAG
 CVLAELLGQ PIFPGDSGVD QLVEIHKVLG TPTREQUIREM NPNTYEFKFP
 QIKAHPWTKV FRPRTPEAI ALCSRLEYT PTARLTPLEA CAHSFFDEL R
 DPNVKLPNGR DTPALFNFTT QELSSNPPLA TILIPPHARI QAAASTPTNA
 TAASDANTGD RGQTNNAASA SASNST

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

GSK3-beta: Determination of V_{max} and K_M value for ATP



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Cell Sciences®
 480 Neponset Street
 Bldg 12A
 Canton, MA 02021

Toll Free: 888-769-1246
 Phone: 781-828-0610
 Fax: 781-828-0542

E-mail: info@cellsciences.com
 Website: www.cellsciences.com