p38γ (p38gamma), GST-tag Recombinant

Catalog: 40144

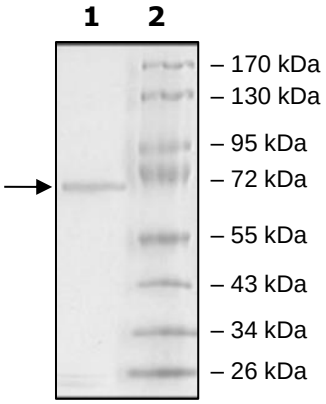
Lot: 221018

Product Information

Construct:	p38γ (GST-Full Length)
Concentration:	0.10 mg/ml
Species:	Human
Formulated In:	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol
Expression System:	Sf9
Format:	Aqueous buffer solution
Stability:	At least 6 months at -80°C. Avoid freeze/thaw cycles.
Storage:	-80°C
Genbank Accession:	NM_002969
MW:	71 kDa
Purity:	90%
Specific Activity:	220 pmol/min/µg
Assay Conditions:	p38γ kinase activity was measured P38 Sub synthetic peptide (IPTTPITTTYFFFKKK) diluted in water to a final concentration of 1 mg/ml. Increasing amounts of kinase were mixed with a final concentration of 200 µg/ml peptide substrate in a buffer consisting of 5 mM MOPS pH 7.2, 2.5 mM β-glycerol-phosphate, 1 mM EGTA, 5 mM $MgCl_2$, 1 mM EGTA and 0.4 mM EDTA with 50 ng/µl BSA (bovine serum albumin) and .25 mM fresh DTT (final concentrations). The reaction was initiated by adding 5 µl [33P]-ATP (1 µCi/sample) mixture containing 0.25 mM non-radioactive ATP The blank was determined from a "no substrate" sample. The reaction was incubated for 15 minutes at 30°C and terminated by spotting 20 µl of the mixture onto phosphocellulose paper strips that were fixed in 1% phosphoric acid and washed three times. Radioactivity was determined using a scintillation counter.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Control Data

4-20% SDS-Page Coomassie Staining



Specific Activity