LTK, GST-Tag

Catalog: 101357

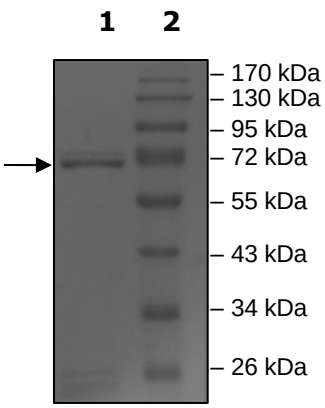
Lot: 220127

Product Information

Construct:	LTK (GST-498-796)
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 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_002344
MW:	70 kDa
Purity:	≥90%
Specific Activity:	15 pmol/min/µg
Assay Conditions:	The activity of the complex was measured using peptide sequence (EAIYAAPFAKKK), based on the C-terminus of Abl, as a substrate (stock solution 1 mg/ml dissolved in distilled water). Assay: Increasing amounts of kinase were mixed with a final concentration of 200 µg/ml peptide substrate in a buffer consisting of 15 mM MOPS pH 7.2, 15 mM $MgCl_2$, 7.5 mM β-glycerol-phosphate, 3 mM EGTA, 1.2 mM EDTA, 20 µg/ml BSA (bovine serum albumin) and 150 µM fresh DTT (final concentrations). The reaction was initiated by adding a [33P]-ATP (1 µCi/sample) mixed with non-radioactive ATP to reach a final concentration of 50 µM. The blank was determined from a "no substrate" sample. The reaction was incubated for 15min 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