PKCβI (PKCbeta1), GST-tag

Catalog: 40158

Lot: 220325

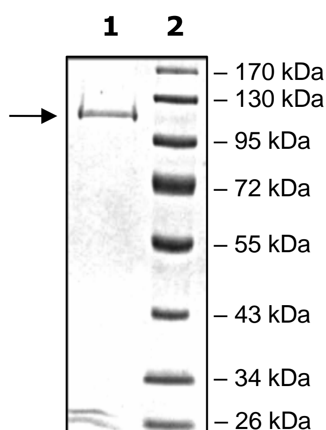
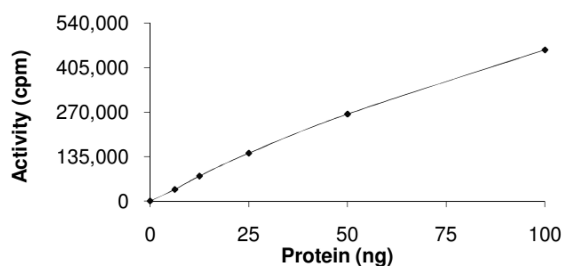
Product Information

Construct: PKCßI (GST-2-end)
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: X06318
MW: 102 kDa
Purity: 80%
Specific Activity: 325 pmol/min/µg

Kinase activity was measured using a PKCtide peptide substrate (ERMRPRKRQGSVRRRV) diluted in distilled water at 1mg/ml.
The protein kinase was diluted to 0.1 µg/µl in buffer containing 5 mM MOPS, pH 7.2, 2.5 mM β-glycero-phosphate, 5 mM MgCl2, 1 mM EGTA, 0.4 mM EDTA and 0.05 mM fresh DTT. Increasing amounts of the protein kinase were mixed with 0.38 mg/ml substrate and a sonicated PKC lipid activator in 20 µl final volume. The blank was determined from a "no substrate" sample. The reaction was initiated by addition of 5 µl of [33P]-ATP diluted in kinase buffer: 6ml kinase buffer containing 1 mCi [33P]-ATP, 0.25 mM ATP, 25 mM MOPS, pH 7.2, 12.5 mM β-glycero-phosphate, 25 mM MgCl2, 5 mM EGTA, 2 mM EDTA, and 0.25 mM fresh DTT.
After incubating for 30°C for 15 minutes, the reaction was 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
	

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