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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Data Sheet

p70S6Kb, Active

Human recombinant, with N-terminal GST-tag

Catalog #: 40146

Lot #: 141210

Conc.: 0.1 mg/ml

Formulated in: 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

References:

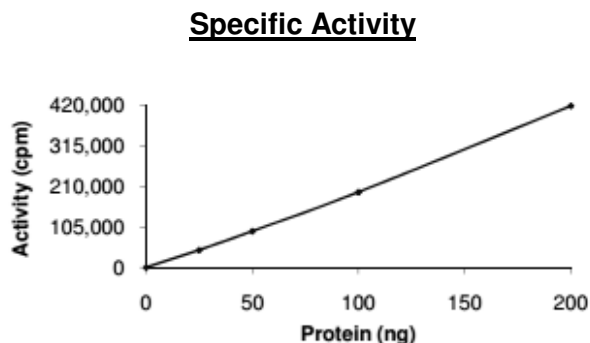
1. Gout, I. *et al.*, *J. Biol. Chem.* 1998; **273**: 30061-30064.
2. Saitoh, M. *et al.*, *Biochem. Biophys. Res Commun.* 1998; **253**: 470-476.

Description: Recombinant human p70S6Kb, also known as RPS6KB2, STK14B, KLS, P70-beta, or SRK, GenBank Accession No. BC_000094, full-length with an N-terminal GST tag and expressed in a baculovirus-infected Sf9 insect cell expression system. MW = 85 kDa.

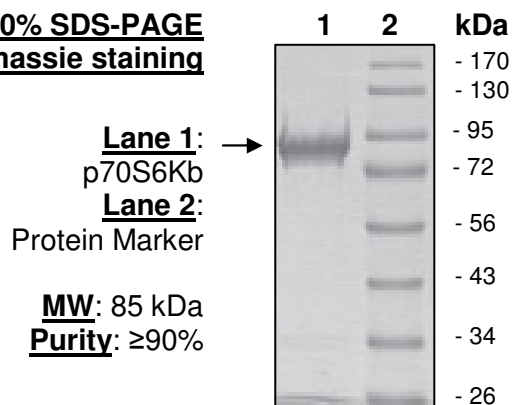
Specific Activity: 107 pmol/min/ μg .
 Assay conditions: Varying amounts of enzyme were incubated in 5 mM MOPS, pH 7.2, 2.5 mM β -glycero-phosphate, 4 mM MgCl_2 , 2.5 mM MnCl_2 , 1 mM EGTA, 0.4 mM EDTA, 0.01 mM DTT, 0.05 mM ATP, 5 μg of RSK-sub peptide substrate, and 4 μCi of [^{33}P]-ATP was incubated at 30°C for 15 minutes. Then spot reaction on phosphocellulose paper, fix in 1% phosphoric acid, and assay with a scintillation counter.

Application: Useful for studying enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance



**10% SDS-PAGE
Coomassie staining**



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