p70 S6K activity kit

The p70 S6K activity kit is an efficient assay that utilizes little sample volume. This kit gives you the ability to an end-point or kinetic assay read-out in a convenient 96-well plate based assay and offers easy sample handling protocols. The assay also offers a high signal to background ratio.

p70 S6K is a mitogen stimulated serine/threonine protein kinase that regulates the cell growth and G1 phase cell cycle progression. p70 S6K is activated by serum stimulation and can be inhibited by both wortmannin and rapamycin. Activation of p70 S6K by multi-site phosphorylation requires phosphoinositide 3-kinase (PI3-K)-dependent signal(s) leading to sequential phosphorylation at two key residues: Thr389 and Thr229. Thr229 phosphorylation is mediated by phosphoinositide-dependent kinase 1 (PDK-1), and is dependent upon prior phosphorylation of Thr389. Multiple residues in the p70 S6K pseudosubstrate domain (e.g. Ser411, Thr421, and Ser424) are also subject to activating phosphorylation by upstream kinases.

Citations: 8 View Online »

Ordering Information

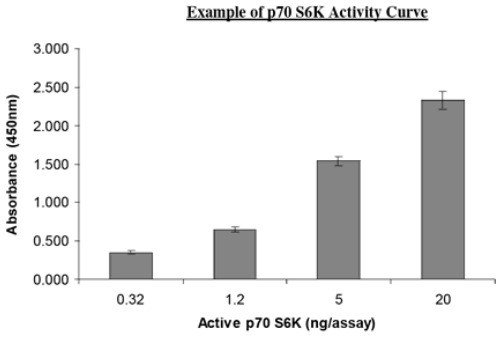
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ADI-EKS-470	96 wells

Manuals, SDS & CofA

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- Safe - non-radioactive measurement of kinase activity
- Flexible - kinetic and end-point options available
- Fast - results in < 4.5 hours
- Efficient - only 30 µl diluted sample needed per well



Analysis of purified active p70 S6K activity with EKS-470. *Varying quantities of purified active p70 S6K using the p70 S6K substrate microtiter plate. Assay was incubated for 60 min at 37°C.*

Handling & Storage

Use/Stability	Store all components at 4°C, except active kinase at -80°C.
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Activity assay, Colorimetric detection
Application Notes	For the measurement of p70 S6K activity in partially purified, purified, or crude enzyme preparations from any species.
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter plate, Antibody, Conjugate, Antibody dilution buffer, Kinase assay dilution buffer, ATP, Active Kinase, Wash buffer concentrate, TMB Substrate, Stop solution 2
Species Reactivity	Species independent
UniProt ID	P23443 (S6K1), Q9UBS0 (S6K2)

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