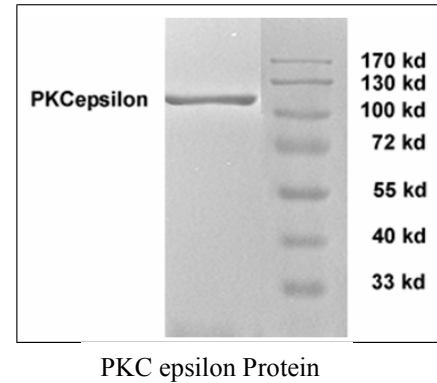


Active PKC epsilon

CATALOG #:	7753-5
SOURCE:	Sf 9 cells
PURITY:	1.5 µg of PKC epsilon protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >90% purity of the PKC epsilon product, and the band was at ~110 kDa.
SPECIFIC ACTIVITY:	1258 nmol/min/mg
MOLECULAR WEIGHT:	~110 kDa.
FORMULATION:	Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
STORAGE CONDITIONS:	Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.

BACKGROUND DESCRIPTION: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. Protein kinase C epsilon (PRKCE), one of the PKC family members, has been shown to be involved in many different cellular functions, such as neuron channel activation, apoptosis, cardioprotection from ischemia, heat shock response, as well as insulin exocytosis. Knockout studies in mice suggest that this kinase is important for lipopolysaccharide (LPS)-mediated signaling in activated macrophages and may also play a role in controlling anxiety-like behavior.

ACTIVITY: 302 nmol phosphate incorporated into CREBtide substrate per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP (0.83 µCi/assay).



RELATED PRODUCTS:

- Active PKC iota (**Cat. No. 7705-5**)
- Active PKC delta (**Cat. No. 7739-5**)
- Active PKC eta (**Cat. No. 7731-5**)
- Active PKC mu (**Cat. No. 7745-5**)
- Active PKC alpha (**Cat. No. 7714-5**)
- Active PKC zeta (**Cat. No. 7718-5**)
- Active PKC gamma (**Cat. No. 7764-5**)
- Active PKC beta II (**Cat. No. 7704-5**)

FOR RESEARCH USE ONLY! Not to be used in humans.