

## Protein Kinase G Iβ human, Recombinant

Cat. No. NATE-0580

Lot. No. (See product label)

## Introduction

**Description** Protein Kinase G I $\beta$  induces apoptosis in certain cell lines such as human breast

cancer cell lines MCF-7 and MDA-MB-468. It inhibits cell proliferation and induces

apoptosis in colon cancer cell lines.

**Applications** Protein Kinase G is a serine/threonine-specific protein kinase that is activated by

cGMP. Protein Kinase G  $\Bigspace{1}{l}\beta$  is used to induce apoptosis and inhibit cell proliferation.

**Synonyms** Protein Kinase G Iβ; PRKG1B; PKG1B; cGMP-dependent protein kinase 1;

cGKI-BETA

## **Product Information**

**Species** Human

**Source** baculovirus infected insect cells

**Form** buffered aqueous glycerol solution

Molecular Weight mol wt 76 kDa (monomer)

*Purity* >95% (SDS-PAGE)

**Activity** > 1.5 units/mg protein (20-fold stimulation by cGMP (5  $\mu$ M))

**Buffer** Solution in 20 mM Tris buffer, pH 7.4, 1 mM EDTA, 1 mM β-mercaptoethanol, 100

mM NaCl, 10 U/ml Trasylol, and 50% glycerol.

Pathway Adaptive Immune System, organism-specific biosystem; Gap junction, organism-

specific biosystem; Gap junction, conserved biosystem; Hemostasis, organismspecific biosystem; Immune System, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved

biosystem

**Function** ATP binding; cGMP binding; cGMP-dependent protein kinase activity; calcium

channel regulator activity; nucleotide binding; protein binding; protein

serine/threonine kinase activity

Unit Definition One unit will phosphorylate 1 micromole of VASPtide (RRKVSKQE) substrate per

minute in 10 mM HEPES, pH 7.4, 5 mM MgCl2, 1 mM DTE and 0.2 mM EDTA.

## Storage and Shipping Information

*Stability* –20°C

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