

Protein Kinase G Iβ human, Recombinant

Cat. No. NATE-0580

Lot. No. (See product label)

Introduction

Description Protein Kinase G Iβ 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

 $I\beta$ is used to induce apoptosis and inhibit cell proliferation.

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

Product Information

Species Human

Source baculovirus infected insect cells

Form buffered aqueous glycerol solution

Molecular

mol wt 76 kDa (monomer)

Weight

Purity >95% (SDS-PAGE)

Activity > 1.5 units/mg protein (20-fold stimulation by cGMP (5 μ 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, organism-specific 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 One unit will phosphorylate 1 micromole of VASPtide (RRKVSKQE) substrate per minute in 10 mM HEPES,

Definition 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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