
Product Data Sheet

Product Name: PRKCE Human
Cat. No.: GP22595
Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein kinase C epsilon type; EC 2.7.11.13; nPKC-epsilon; PRKCE; PKCE; MGC125656; MGC125657.		
Formulation	PRKCE is supplied in 20mM Tris, pH 7.4, 0.1M NaCl, 20% glycerol, 1mM DTT, 0.1mM EDTA, 0.2mM PMSF, 1mM benzamidine and 0.03% Brij-35.		

Introduction

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. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase 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 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Background

PRKCE Human Recombinant produced in Sf9 is a glycosylated, polypeptide chain containing amino acids 2-737 and having a molecular mass of 87 KD. This protein is the

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full-length form of the protein with an amino terminal poly His-tag. PRKCE is purified by proprietary chromatographic techniques.

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