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RAF1
Recombinant Human RAF1 (EE) GST tag, Active

Catalog No.	CRR117A	**Quantity:**	5 µg
	CRR117B		10 µg
	CRR117C		100 µg

Alternate Names: RAF proto-oncogene serine/threonine-protein kinase, Proto-oncogene c-RAF, cRaf, Raf -1

Description: RAF1 is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. The activated RAF1 can phosphorylate and activate the dual specificity protein kinases MEK1 and MEK2, which in turn phosphorylate to activate the serine/threonine specific protein kinases ERK1 and ERK2. Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the control of gene expression involved in the cell division cycle, apoptosis, cell differentiation and cell migration.
Active rhRAF1 (Y340E, Y341E, 306-end) was expressed by baculovirus in Sf9 cells with an N-terminal GST tag. RAF1 (EE) is 100-fold more active vs. wild type.

Concentration: 0.10 mg/ml

UniProt ID: P04049

Source: Sf9 Insect cells

Molecular Weight: 63 kDa

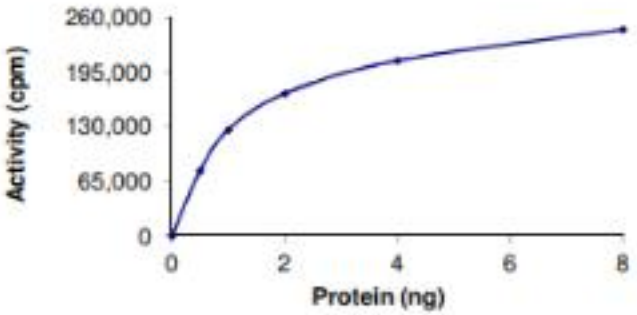
Formulation: 50mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol

Purity: >75% by densitometry.

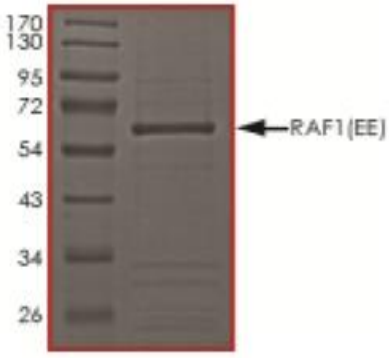
Specific Activity: 3,000-5,000 nmol/min/mg, lot specific, using the ADP-Glo™ Kinase Assay kit, MEK1 substrate, Kinase Assay Buffer III (5x) and Kinase Dilution Buffer IX (1x), protocol included with product.

Storage & Stability: Store product at -80°C. For optimal storage. Centrifuge vial briefly before opening to consolidate the product. **Avoid repeated freeze-thaw cycles**.

Specific activity of CRR103 = ~5,000 nmol/min/mg



SDS-PAGE >75% purity



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