Active Recombinant Human RAF1, GST-tagged

Cat. No. RAF1-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAF1(Y340E-Y341E, 306-end) was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated, the cellular RAF1 protein can phosphorylate to 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. Mutations in this gene are associated with Noonan syndrome 5 and LEOPARD syndrome 2.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	~6000 nmol/min/mg
Molecular Mass	~63 kDa
Purity	>80%

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Applications	Kinase Assay; Western Blot
Stability	1 yr at -70°C from date of shipment.
Storage	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	RAF1 Raf-1 proto-oncogene, serine/threonine kinase [Homo sapiens (human)]
Official Symbol	RAF1
Synonyms	RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; NS5; CRAF; Raf-1; c-Raf; Oncogene RAF1; raf proto-oncogene serine/threonine protein kinase; EC 2.7.11.1; C-RAF; cRaf
Gene ID	5894
mRNA Refseq	NM_002880
Protein Refseq	NP_002871
MIM	164760
UniProt ID	P04049
Chromosome Location	3p25

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Pathway	AGE/RAGE pathway; Acute myeloid leukemia; B Cell Receptor Signaling Pathway
Function	MAP kinase kinase kinase activity; identical protein binding; mitogen-activated protein kinase kinase binding

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