

## Recombinant Human RAF1 protein, His-tagged

Cat. No. RAF1-169H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human RAF1(Ser306-Phe648) fused with His tag at N-terminal was expressed in Insect cells.

**Species** Human

**Source** Insect Cells

**ProteinLength** Ser306-Phe648

**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** 50mM Tris-HCl pH8.0, 150mM NaCl, 20% glycerol.

**Molecular Mass** 39 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

<b>Gene Name</b>	RAF1 v-raf-1 murine leukemia viral oncogene homolog 1 [ Homo sapiens ]
<b>Official Symbol</b>	RAF1
<b>Synonyms</b>	RAF1; v-raf-1 murine leukemia viral oncogene homolog 1; RAF proto-oncogene serine/threonine-protein kinase; c Raf; CRAF; Raf 1; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase; NS5; Raf-1; c-Raf;
<b>Gene ID</b>	5894
<b>mRNA Refseq</b>	NM_002880
<b>Protein Refseq</b>	NP_002871
<b>MIM</b>	164760
<b>UniProt ID</b>	P04049

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