

## Active Recombinant Human RAF1, GST-tagged

Cat. No. RAF1-551H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RAF1(a.a. 306-648), fused with N-terminal GST-tag, was expressed in an Baculovirus infected Sf9 cell expression system.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	306–648
<b>Description</b>	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.
<b>Form</b>	Aqueous buffer solution. 40 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 16 mM glutathione, 20% glycerol, 3 mM DTT.
<b>Bio-activity</b>	158 pmol/min/g.
<b>Molecular Mass</b>	65 kDa

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<b>Purity</b>	≥80%
<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Storage</b>	>6 months at –80°C. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.71 mg/ml

## GENE INFORMATION

<b>Gene Name</b>	RAF1 Raf-1 proto-oncogene, serine/threonine kinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	RAF1
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">5894</a>
<b>mRNA Refseq</b>	<a href="#">NM_002880</a>
<b>Protein Refseq</b>	<a href="#">NP_002871</a>
<b>MIM</b>	<a href="#">164760</a>
<b>UniProt ID</b>	P04049
<b>Chromosome Location</b>	3p25
<b>Pathway</b>	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Acute

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myeloid leukemia; Axon guidance; B cell receptor signaling pathway

**Function**

ATP binding; MAP kinase kinase kinase activity; identical protein binding; mitogen-activated protein kinase kinase binding

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