Recombinant Human RAF1 Protein, N-terminal 6XHis and Avi Tag

Cat. No. RAF1-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ras Binding Domain (RBD) of Human Raf-1 Proto-Oncogene, Serine/Threonine Kinase (RAF1), (UniProt # P04049, amino acids 50-140) with the N-terminal Avi Tag peptide and His-tag is produced in E. coli cells and site-specifically biotinylated at AviTag with BirA enzyme.
Species	Human
Source	E.coli
ProteinLength	50-140
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.
Molecular Mass	~13.4 kDa
Purity	> 90% by Coomassie staining

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Applications	Measurement of the GTP/GDP bound ratio of Ras in vitro. Quantitation of GTP-bound Ras from tissue and tissue culture cell lysates. RAS/RAF binding studies. Inhibitor screening for RAS/RAF interaction
Notes	This product is for laboratory research use only.
Storage	Storage is recommended at -80 centigrade for longer periods of time.
Storage Buffer	20 mM HEPES, pH 7.5, 150 mM NaCl, 5 mM 2-mercaptoethanol, 1 mM MgCl2, and 10% glycerol Purity: >90% by Coomassie staining
Shipping	Product requires shipping on ice packs.

GENE INFORMATION

Gene Name	RAF1 Raf-1 proto-oncogene, serine/threonine kinase [Homo sapiens (human)]
Official Symbol	RAF1
Synonyms	RAF1; Raf-1 proto-oncogene, serine/threonine kinase; NS5; CRAF; Raf-1; c-Raf; CMD1NN; RAF proto-oncogene serine/threonine-protein kinase; C-Raf proto-oncogene, serine/threonine kinase; Oncogene RAF1; proto-oncogene c-RAF; raf proto-oncogene serine/threonine protein kinase; v-raf-1 murine leukemia viral oncogene homolog 1; v-raf-1 murine leukemia viral oncogene-like protein 1; EC 2.7.11.1
Gene ID	5894
mRNA Refseq	NM_002880

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Protein Refseq	NP_002871
MIM	164760
UniProt ID	P04049

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