

# Recombinant Human V-raf-1 Murine Leukemia Viral Oncogene Homolog 1

**Cat. No.** RAF1-1122H    **Lot. No.** (See product label)

## SPECIFICATION

**Species** Human

**Source** E.coli

**Description** Raf is a member of the serine/threonine protein kinase family involved in regulation of cell growth and differentiation and is the most important effector of Ras. Full-length Raf is composed of three conserved regions responsible for interaction with Ras, for phosphorylation and for catalytic activity. RafRBD (Ras binding domain, amino acids 50-132) mediates interaction with membrane-anchored Ras necessary for activation of the kinase activity of Raf.

**Molecular Weight** 9.4 kDa (amino acids 50 - 132).

**Form** Liquid. Supplied in 32 mM Tris-HCl pH 7.6, 200 mM NaCl, 5 mM MgCl<sub>2</sub> and 5 mM DTT.

**Purity** ≥95% by SDS-PAGE.

**Usage** For in vitro use only.

**Storage** Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

## GENE INFORMATION

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<b>Gene Name</b>	RAF1 v-raf-1 murine leukemia viral oncogene homolog 1 [ Homo sapiens ]
<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>	5894
<b>mRNA Refseq</b>	NM_002880
<b>Protein Refseq</b>	NP_002871
<b>MIM</b>	164760
<b>UniProt ID</b>	P04049
<b>Chromosome Location</b>	3p25
<b>Pathway</b>	Acute myeloid leukemia; B cell receptor signaling pathway; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term depression; Long-term potentiation; MAPK signaling pathway; Melanogenesis; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Progesterone-mediated oocyte maturation; Prostate cancer; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; VEGF signaling pathway; Vascular smooth muscle contraction
<b>Function</b>	ATP binding; metal ion binding; nucleotide binding; protein serine/threonine kinase

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activity; receptor signaling protein activity; transferase activity; zinc ion binding

PDB rendering based  
on 1c1y.



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