

Recombinant Human BRAF

Cat. No. BRAF-26567TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 432-725 of Human B Raf coexpressed with P50.MW is 36 kDa.
Species	Human
ProteinLength	432-725 a.a.
Description	This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene.
Tissue specificity	Brain and testis.
Biological activity	Activity was tested using MEK1 as substrate. Assay buffer: 50 mMHEPES, pH 7.4, 3 mM MgCl ₂ , 3 mM MnCl ₂ , 1 mM DTT, 3 uM Na-orthovanadate, 0.1mM ATP
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 40% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM

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	Tris HCl, 150mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	SEDRNRMKT LGRRDSSDDW EIPDGQITVG QRIGSGSFGT VYKGKWHG DV AVKMLNVTAP TPQQLQAFKN EVGVLKTRH VNILLFMGYS TKPQLAIVTQ WCEGSSLYHH LHIIETKFEM IKLIDIARQT AQGMDYLHAK SIIHRDLKSN NIFLHEDLTV KIGDFGLATV KSRWSGSHQF EQLSGSILWM APEVIRMQDK NPYSFQSDVY AFGIVLYELM TGQLPYSNIN NRDQIIFMVG RGYLSPDLSK VRSNCPKAMK RLMAECLKKK RDERPLFPQI LASIELLARS LPKIH
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 RBD (Ras-binding) domain.

GENE INFORMATION

Gene Name	BRAF v-raf murine sarcoma viral oncogene homolog B1 [Homo sapiens]
Official Symbol	BRAF
Synonyms	BRAF; v-raf murine sarcoma viral oncogene homolog B1; serine/threonine-protein kinase B-raf; BRAF1;
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324
MIM	164757

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Uniprot ID	P15056
Chromosome Location	7q34
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	ATP binding; MAP kinase kinase kinase activity; metal ion binding; mitogen-activated protein kinase kinase binding; nucleotide binding;

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