

Recombinant Human BRAF

Cat. No. BRAF-26566TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 416-766 of Human B Raf, containing a V599E mutation, with an N terminal proprietary tag, expressed by Baculovirus in Sf9 insect cells, MWt 63 kDa.
Species	Human
ProteinLength	416-766 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	The specific activity of BRAF-26566TH was determined to be 98 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium

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	chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
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
Uniprot ID	P15056
Chromosome Location	7q34
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of NMDA

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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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