

## Recombinant Human BRAF

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>ProteinLength</b>	416-766 a.a.
<b>Description</b>	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.
<b>Tissue specificity</b>	Brain and testis.
<b>Biological activity</b>	The specific activity of BRAF-26566TH was determined to be 98 nmol/min/mg.
<b>Form</b>	Liquid
<b>Storage buffer</b>	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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