

Recombinant Human BRAF, GST-tagged, Active

Cat. No. BRAF-253H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BRAF (416-766) was expressed by baculovirus in <i>Sf9 insect cell</i> using a N-terminal GST tag. MW = 63 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	416-766 a.a.
Description	BRAF is a member of the RAF family that is activated by members of the Ras family upon growth factor-induced stimulation. Active Ras can induce heterodimerization of cRaf and BRAF and this may explain the observed cooperativity of cRaf and B-Raf in cells responding to growth factor signals. Activating mutations in the BRAF gene are present in a large percentage of human malignant melanomas and in a proportion of colon cancers. The vast majority of these mutations result in a valine to glutamic acid change at residue 599 within the activation segment of B-Raf.
Sequence	416-766.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	BRAF v-raf murine sarcoma viral oncogene homolog B1 [Homo sapiens]
Synonyms	v-raf murine sarcoma viral oncogene homolog B1; BRAF1; RAFB1; B-RAF1; FLJ95109; MGC126806; MGC138284; BRAF; B-Raf; 94 kDa B-raf protein; murine sarcoma viral (v-raf) oncogene homolog B1; B-Raf proto-oncogene serine/threonine-protein kinase (p94); B-Raf; EC 2.7.11.1; p94
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324
MIM	164757
UniProt ID	P15056
Chromosome Location	7q34
Pathway	Acute myeloid leukemia; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; ErbB signaling pathway; Focal adhesion; Glioma; Insulin signaling pathway; Long-term depression; Long-term potentiation; MAPK signaling pathway; Melanoma; 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; Thyroid cancer; Vascular smooth muscle contraction; mTOR signaling pathway

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Function

mitogen-activated protein kinase kinase binding; MAP kinase kinase kinase activity; protein heterodimerization activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; receptor signaling protein activity; ATP binding; metal ion binding; nucleotide binding; protein binding; transferase activity; zinc ion binding

PDB rendering based on 1uwh.



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