

Recombinant Human V-Raf Murine Sarcoma Viral Oncogene Homolog B1, GST-tagged

Cat. No. BRAF-994H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BRAF (416-end; V599E) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	416-end 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.
Applications	Kinase Assay; Western Blot
Molecular Weight	63 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT,

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	0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	98 nmol/min/mg
Purity	> 80 %
Concentration	0.1 ug/ul
Sequences	416-end
Storage	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.
Pathways	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

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; NS7; BRAF1; RAFB1; B-RAF1; FLJ95109; MGC126806; MGC138284; serine/threonine-protein kinase B-raf; p94; 94 kDa B-raf protein; proto-oncogene B-Raf; murine sarcoma viral (v-raf) oncogene homolog B1; B-Raf proto-oncogene serine/threonine-protein kinase (p94); Serine/threonine-protein kinase B-raf; Proto-oncogene B-Raf; EC 2.7.11.1;

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OTTHUMP00000212184	
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324
MIM	164757
UniProt ID	P15056
Chromosome Location	7q34
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
Protein BRAF PDB 1uwh.	