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 BRaf 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,

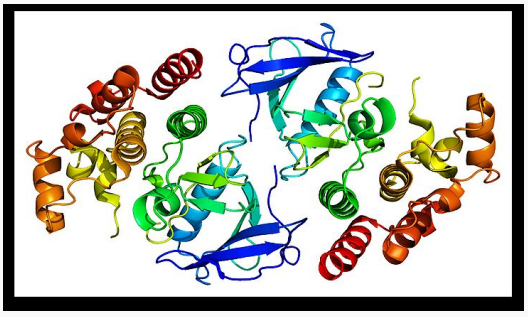
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	0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	98 nmol/min/mg
Purity	> 80 %
Concentration	0.1 ug/ul
Sequences	416-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation 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.	

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