

Active Recombinant Human BRAF/p50 Protein, Flag-His-tagged

Cat. No. BRAF-550H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRAF (GenBank accession # NM_004333), a.a. 432-725 with N-terminal His-tag, MW=36 kDa, and p50 (GenBank accession # NM_007065), a.a. 2-378(end) with N-terminal FLAG-tag, MW=45 kDa, coexpressed in a Baculovirus infected Sf9 cell expression system. This protein exists in a complex with Cdc37 and p50.
Species	Human
Source	Insect Cells
ProteinLength	432-725;2-378 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. [provided by RefSeq, Jul 2008]
Bio-activity	<1 pmol/min/μg.

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Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at –80 centigrade. Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).
Concentration	0.09 mg/ml
Storage Buffer	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 225 mM imidazole, 10% glycerol, and 3 mM DTT.
Warning	Avoid freeze/thaw cycles

GENE INFORMATION

Gene Name	BRAF B-Raf proto-oncogene, serine/threonine kinase [Homo sapiens (human)]
Official Symbol	BRAF
Synonyms	BRAF; B-Raf proto-oncogene, serine/threonine kinase; B-RAF1; RAFB1; cdc37; p50; NS7; B-raf; BRAF1; RAFB1; B-RAF1; serine/threonine-protein kinase B-raf; 94 kDa B-raf protein; B-Raf proto-oncogene serine/threonine-protein kinase (p94); B-Raf serine/threonine-protein; murine sarcoma viral (v-raf) oncogene homolog B1; proto-oncogene B-Raf; v-raf murine sarcoma viral oncogene homolog B; v-raf murine sarcoma viral oncogene homolog B1; EC 2.7.11.1
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324

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MIM	164757
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UniProt ID	P15056
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