

## 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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<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Stability</b>	>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%).
<b>Concentration</b>	0.09 mg/ml
<b>Storage Buffer</b>	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 225 mM imidazole, 10% glycerol, and 3 mM DTT.
<b>Warning</b>	Avoid freeze/thaw cycles
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<b>BRAF B-Raf proto-oncogene, serine/threonine kinase [ Homo sapiens (human) ]</b>
<b>Official Symbol</b>	<b>BRAF</b>
<b>Synonyms</b>	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
<b>Gene ID</b>	<b>673</b>
<b>mRNA Refseq</b>	<b>NM_004333</b>
<b>Protein Refseq</b>	<b>NP_004324</b>

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<b>MIM</b>	164757
<b>UniProt ID</b>	P15056

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