

Active Recombinant Human BRAF Protein, GST-tagged

Cat. No. BRAF-321H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human BRAF partial ORF (NP_004324, 346 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Bio-activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione-coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG (or HRP-labeled anti-mouse IgG). Substrate : MAP2K1 [inactive mutant]. ATP: 100 μM.

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Molecular Mass	36.74 kDa
AA Sequence	FRPADEDHRNQFGQRDRSSSAPNVHINTIEPVNIDDLIRDQGFRGDGGSTTGLSATP PASLPGSLTNVKALQKSPGPQREKRSSSSSEDRNRMKTLGRRD
Quality Control Test	12.5% SDS-PAGE Stained with Coomassie Blue.
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; serine/threonine-protein kinase B-raf; BRAF1; 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); NS7; RAFB1; B-RAF1; FLJ95109; MGC126806; MGC138284;
Gene ID	673
mRNA Refseq	NM_004333
Protein Refseq	NP_004324
MIM	164757

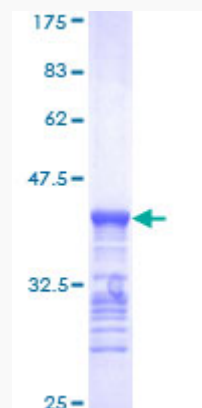
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UniProt ID

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