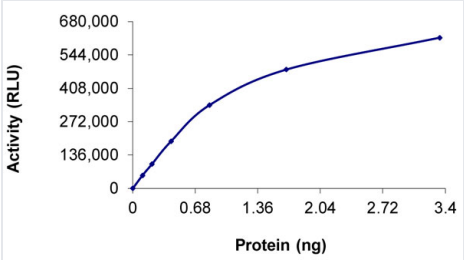
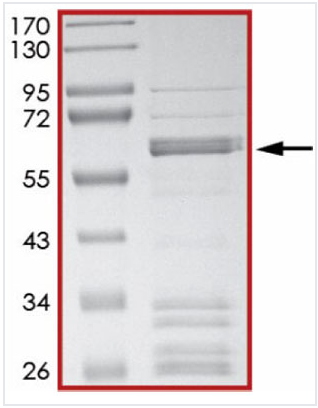
BRAF (V600E) (BRAF) Recombinant Protein

PRODUCT OVERVIEW

Product Name	BRAF (V600E), Recombinant Protein
Full Product Name	BRAF (V600E), Active
Product Gene Name	BRAF recombinant protein
Product Synonym Names	BRAF (V599E); BRAF1; RAFB1; B-raf; B-raf 1; MGC126806; MGC138284
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Purity/Purification	>85%
Concentration	0.1 ug/uL (lot specific)
Preparation and Storage	Store product at -70 degree 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.
Molecular Weight	~63kDa
Tag	GST
Species	Human
Specific Activity	1,195 nmol/min/mg
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for BRAF recombinant protein	Mutant Kinases; Angiogenesis; Apoptosis/Autophagy; Cancer; ERK/MAPK Pathway; JAK/STAT Pathway; Ser/Thr Kinases
Applications Tested/Suitable for BRAF recombinant protein	Kinase Assay
Related Product Information for BRAF recombinant protein	Recombinant human BRAF (V600E)(416-end) protein was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_004333. 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 (1). 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 BRAF (2).
Product References and Citations for BRAF recombinant protein	1. Weber, C K. et al: Active Ras induces heterodimerization of cRaf and BRaf. Cancer Res. 2001 May 1;61(9):3595-8. 2. Mercer, K E. et al: Raf proteins and cancer: B-Raf is identified as a mutational target. Biochim Biophys Acta. 2003 Jun 5;1653(1):25-40.
Other Notes	Small volumes of BRAF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BRAF purchase	MBS516603 is a recombinant protein targeting BRAF. Also known as BRAF (V600E), Active. Host: Sf9 insect cells.



Activity of BRAF recombinant protein
The specific activity of BRAF (V600E) was determined to be 1,195 nmol/min/mg as per activity assay protocol and was equivalent to 101 nmol/min/mg as per radiometric assay.



Purity of BRAF recombinant protein
The purity was determined to be >85% by densitometry.Approx. MW 63 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRAF. It may not necessarily be applicable to this product.

GenBank Nucleotide #	NM_004333
Protein Family	High-affinity branched-chain amino acid transport ATP-binding protein
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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