

# BioActive Human BRAF (V600E,G469A) Recombinant Protein,Fc Tag

Catalog Number:SGRP00670

DESCRIPTION	
Product Name	BioActive Human BRAF (V600E,G469A) Recombinant Protein,Fc Tag
Gene Name	BRAF
Source	Full length Human BRAF (V600E), expressed in HEK293 cells.
Alternative names	
SPECIFICATIONS	
Biological Activity	Fully biologically active
Purity	> 95% by SDS-PAGE & HPLC
Endotoxin Level	< 1.0 EU per µg protein as determined by the LAL method
Expression System	HEK293 Cells
Format	Recombinant
Species	Human
Predicted MW	
Actual MW	
Applications	Sandwich ELISA Functional Studies Mass Spectrometry SDS-PAGE HPLC
Form	Lyophilized from sterile PBS, pH 7.53
Concentration	N/A
Stability and Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Reconstitute with Phosphate Buffered Saline.
BACKGROUND	
Gene Accession	P15056
Gene Alias	Protein names Recommended name Serine/threonine-protein kinase B-raf Curated EC number EC:2.7.11.1 2 Publications (UniProtKB   ENZYME   Rhea) Alternative names Proto-oncogene B-Raf p94 v-Raf murine sarcoma viral oncogene homolog B1 Gene names Name BRAF Imported Synonyms BRAF1, RAFB1

would normally be required. The V600E variant is detected in approximately 50% of melanomas. The FDA-approved drug label for vemurafenib states that the presence of BRAF V600E mutation in tumor specimens should be confirmed, using an FDA-approved test, before starting treatment with vemurafenib.

#### Background

BRAF G469A is a hotspot mutation within the protein kinase domain of the Braf protein (UniProt.org). G469A results in increased Braf kinase activity and downstream activation of Erk, and is transforming in cell culture (PMID: 19010912, PMID: 12068308, PMID: 29533785). The most common BRAF variant, V600E, constitutively activates the kinase, and causes cell proliferation in the absence of growth factors that