

BioActive Human BRAF (K601R,L597R,V600R) Recombinant Protein,Fc Tag

Catalog Number:SGRP00673

DESCRIPTION	
Product Name	BioActive Human BRAF (K601R,L597R,V600R) Recombinant Protein,Fc Tag
Gene Name	BRAF
Source	Full length Human BRAF inframe deletion (L485),inframe deletion (P490), 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 7.56
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

to transform cells in culture (PMID: 15035987, PMID: 29533785). In a clinical case study, a melanoma patient harboring BRAF V600R treated with Tafinlar (dabrafenib) demonstrated a reduction in lesion size after 2.5 months and at 5 months, stable disease, however, after 7 months progression ensued (PMID: 27255157). In a preclinical study, Tafinlar (dabrafenib) inhibited proliferation of melanoma cells harboring BRAF V600R in culture (PMID: 27523909). In a preclinical study, PLX7904 inhibited proliferation of melanoma cells harboring BRAF V600R in culture (PMID: 27523909). In a preclinical study, TAK-632 inhibited proliferation of melanoma cell lines harboring BRAF V600R in culture (PMID: 27523909). In a preclinical study, Zelboraf (vemurafenib) inhibited proliferation of melanoma cells harboring BRAF V600R in culture (PMID: 27523909). In a preclinical study, AZ628 inhibited proliferation of melanoma cell lines harboring BRAF V600R in culture (PMID: 27523909).

Background

BRAF V600R (previously reported as V599) lies within the activation segment of the kinase domain of the Braf protein (PMID: 15035987). V600R confers a gain of function to the Braf protein as demonstrated by increased Braf kinase activity, downstream signaling, and the ability