

BioActive Human BRAF (Y472C) Recombinant Protein, Fc Tag

Catalog Number: SGRP00677

DESCRIPTION	
Product Name	BioActive Human BRAF (Y472C) Recombinant Protein, Fc Tag
Gene Name	BRAF
Source	Full length Human BRAF (V600E, V600K), 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 7.60
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

two different cell lines, Y472C induces similar cell proliferation and cell viability as compared to wild-type Braf (PMID: 29533785), and therefore, its effect on Braf protein function is unknown.

Background

BRAF Y472C is present in 0.05% of AACR GENIE cases, with endometrial endometrioid adenocarcinoma and lung adenocarcinoma having the greatest prevalence. BRAF Y472C lies within the protein kinase domain of the Braf protein (UniProt.org). Y472C results in impaired Braf kinase activity, but paradoxically increases Mek and Erk signaling through C-raf transactivation (PMID: 22649091), however in