

BioActive Human ABL1 (V299L) Recombinant Protein, Fc Tag

Catalog Number:SGRP00623

DESCRIPTION	
Product Name	BioActive Human ABL1 (V299L) Recombinant Protein, Fc Tag
Gene Name	ABL1
Source	Full length Human ABL1 (T315A, F317L, F317V, F317I, F317C, F317I, Y253H, E255K, E255V, F359V, F359C, F359I), 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 7.6
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	P00519
Gene Alias	Protein names Recommended name Tyrosine-protein kinase ABL1 EC number EC:2.7.10.2 2 Publications (UniProtKB ENZYME Rhea) Alternative names Abelson murine leukemia viral oncogene homolog 1 Abelson tyrosine-protein kinase 1 Proto-oncogene c-Abl p150 Gene names Name ABL1 Synonyms ABL, JTK7

biochemically characterized and therefore, its effect on Abl1 protein function is unknown (PubMed, Oct 2022). Nilotinib has evidence of efficacy in patients with ABL1 V299L in acute lymphoblastic leukemia.

Background

ABL1 is altered in 26.27% of chronic myeloid leukemia patients. ABL1 V299L lies within the protein kinase domain of the Abl1 protein (UniProt.org). ABL1 V299L has been demonstrated to occur as a secondary resistance mutation in the context of BCR-ABL1 (PMID: 18242697, PMID: 23086624, PMID: 30419862), but has not been