

## Recombinant Human BCR

Cat. No. BCR-26665TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant fragment, corresponding to N terminal amino acids 1-695 of Human Bcr expressed by baculovirus in Sf9 insect cells using an N-terminal tag, 120kDa.

**Species** Human

**ProteinLength** 1-695 a.a.

**Description** A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromosome, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 breakpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 breakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac. Two transcript variants encoding different isoforms have been found for this gene.

**Form** Liquid

**Storage buffer** Preservative: None  
Constituents: 25% Glycerol, 50mM Sodium chloride, 50mM Tris HCl, 0.25mM DTT, 0.1mM PMSF, pH 7.5

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

<b>Gene Name</b>	BCR breakpoint cluster region [ Homo sapiens ]
<b>Official Symbol</b>	BCR
<b>Synonyms</b>	BCR; breakpoint cluster region; BCR1, D22S11; breakpoint cluster region protein; ALL; CML; D22S662; PHL;
<b>Gene ID</b>	613
<b>mRNA Refseq</b>	NM_004327
<b>Protein Refseq</b>	NP_004318
<b>MIM</b>	151410
<b>Uniprot ID</b>	P11274
<b>Chromosome Location</b>	22q11
<b>Pathway</b>	Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; Pathways in cancer, organism-specific biosystem; Regulation of RAC1 activity, organism-specific biosystem; Regulation of RhoA activity, organism-specific biosystem;
<b>Function</b>	ATP binding; GTPase activator activity; Rac GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity;

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