

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.

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GENE INFORMATION

Gene Name	BCR breakpoint cluster region [Homo sapiens]
Official Symbol	BCR
Synonyms	BCR; breakpoint cluster region; BCR1, D22S11; breakpoint cluster region protein; ALL; CML; D22S662; PHL;
Gene ID	613
mRNA Refseq	NM_004327
Protein Refseq	NP_004318
MIM	151410
Uniprot ID	P11274
Chromosome Location	22q11
Pathway	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;
Function	ATP binding; GTPase activator activity; Rac GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity;

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