# Recombinant Human Breakpoint Cluster Region protein, MYC/DDK-tagged

**Cat. No.** BCR-1543H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human Breakpoint Cluster Region, transcript variant 2, fused with MYC/DDK tag at C-terminal was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **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** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 137.5 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

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## GENE INFORMATION

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| **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; renal carcinoma antigen NY-REN-26; BCR1; D22S11; FLJ16453; |
| **Gene ID** | 613 |
| **mRNA Refseq** | NM_021574 |
| **Protein Refseq** | NP_067585 |
| **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; Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem; |
| **Function** | ATP binding; GTPase activator activity; Rac GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; kinase |

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| | activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity; |

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