

Product Information

BCR (1-695), GST-tagged, human recombinant, expressed in Sf9 insect cells

Catalog Number **SRP5167**
Storage Temperature -70°C

Synonyms: ALL, CML, PHL, BCR1, D22S11, D22S662, FLJ1645

Product Description

BCR (also known as breakpoint cluster region) encodes a phosphoprotein that has serine/threonine kinase activity.¹ The human c-ABL oncogene is translocated from chromosome 9 to a region on chromosome 22 (associated with BCR) in chronic myelocytic leukemia. In classical t(9;22) translocation, as observed in chronic granulocytic leukemia (CGL), a hybrid DNA unit is produced comprising the BCR gene product plus the translocated c-ABL gene from chromosome 9. The BCR-ABL hybrid protein (p210) is formed that displays increased tyrosine kinase activity. A similar DNA rearrangement of the p210 protein is also found in cases of Philadelphia-positive acute lymphoblastic leukemia (ALL).²

Recombinant human BCR (1-695) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_004327. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~120 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

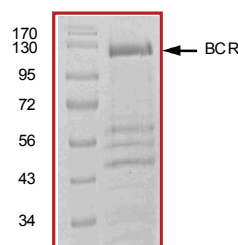
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Stam, K. et al., Evidence that the *phl* gene encodes a 160,000-dalton phosphoprotein with associated kinase activity. *Mol. Cell Biol.*, **7(5)**, 1955-1960 (1987).
2. Eridani, S. et al., Molecular biology of Philadelphia chromosome in chronic granulocytic leukaemia and acute lymphoblastic leukaemia. *Cytotechnology*, **1**, 33-36 (1987).

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