Abl1 (human), (recombinant) (His-tag)

The ABL1 protooncogene encodes a cytoplasmic and nuclear protein tyrosine kinase that has been implicated in cell differentiation, cell division, cell adhesion, and stress responses. The c-Abl protein is inhibited by its SH3 domain, and deletion of this domain turns ABL1 into an oncogene. A chromosomal translocation results in the head-to-tail fusion of the BCR and ABL1 genes. This translocation is present in many cases of chronic myelogeneous leukemia. The DNA-binding activity of Abl1 is regulated by CDC2-mediated phosphorylation.

Manuals, SDS & CofA

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Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Abelson murine leukemia viral oncogene homolog 1
Application Notes	Useful tool to study enzyme regulation and kinetics, phosphorylate target substrates, screen for inhibitors.
Formulation	Liquid. In 50mM sodium phosphate, pH 7.0, containing 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
MW	~135kDa
Purity	≥70% (SDS-PAGE)
Sequence	Human recombinant Abl1 (aa 27-1130) with N-terminal histidine tag.
Source	Produced in insect cells. Produced in a baculovirus expression system.
UniProt ID	P00519

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