Abl1 (mouse), (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.
Concentration	0.1mg/ml
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 150mM sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF and 25% glycerol.
MW	~135kDa
Purity	≥70% (SDS-PAGE)
Sequence	Mouse recombinant Abl1 (aa 27-1123) with N-terminal histidine tag. Mouse Abl1 is 89% identical (91% similar) to human Abl1.
Source	Produced in insect cells. Produced in a baculovirus expression system.
Specific Activity	820 nmol/min/mg using a peptide substrate, EAIYAAPFAKKK, in 25mM MOPS, pH 7.2, containing 12.5mM β-glycerol-phosphate, 25mM $MgCl_2$, 5mM EGTA, 2mM EDTA. Add 0.25mM DTT to assay buffer prior to use.
UniProt ID	P00520

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