RP03368LQ
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Recombinant Human ABL1/c-Abl Kinase

Catalog No.: RP03368LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus-Insect Cells	25	P00519

Tags
No tag

Synonyms
ABL1; ABL; c-Abl; JTK7; Abelson tyrosine-protein kinase 1; Proto-oncogene c-Abl; p150

Product Information

Source

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 20 mM Tris-HCl, 5% glycerol, 200 mM NaCl. (pH 8.0). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

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Background

Tyrosine-protein kinase ABL1 also known as ABL1 is a protein that, in humans, is encoded by the ABL1 gene (previous symbol ABL). c-Abl is sometimes used to refer to the version of the gene found within the mammalian genome, while v-Abl refers to the viral gene, which was initially isolated from the Abelson murine leukemia virus. Activity of ABL1 protein is negatively regulated by its SH3 domain, and deletion of the SH3 domain turns ABL1 into an oncogene. The DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function for ABL1. Mutations in the ABL1 gene are associated with chronic myelogenous leukemia (CML). In CML, the gene is activated by being translocated within the BCR (breakpoint cluster region) gene.

Basic Information

Description
Recombinant Human ABL1/c-Abl Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Glu27-Arg1130) of Human ABL1 (Accession #P00519) fused with No tag.

Bio-Activity
The activity of ABL is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.
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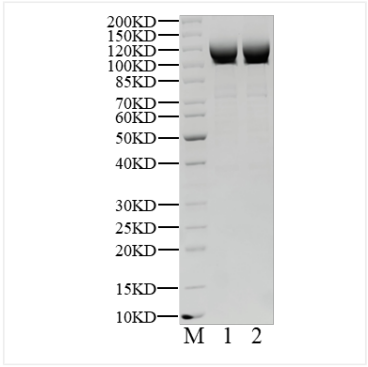
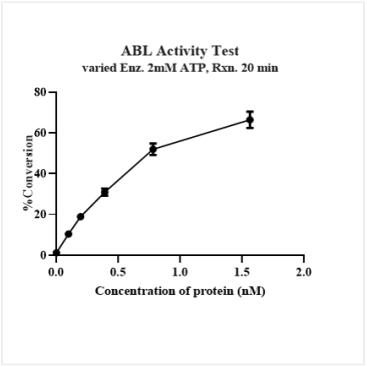
Validation Data



Recombinant Human ABL1/c-Abl Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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