

## ABL1 Protein, Human (GST)

Cat. No.:	HY-P71685
Synonyms:	Abelson murine leukemia viral oncogene homolog 1; Abelson tyrosine protein kinase 1; Abl 1; ABL; JTK7; p150; Proto oncogene tyrosine protein kinase ABL1
Species:	Human
Source:	E. coli
Accession:	P00519 (I4-T194)
Gene ID:	25
Molecular Weight:	Approximately 48.1 kDa

### PROPERTIES

AA Sequence	<div> <div>I C L K L V G C K S</div> <div>E A A R W N S K E N</div> <div>K G E K L R V L G Y</div> <div>K H S W Y H G P V S</div> <div>S L R Y E G R V Y H</div> </div> <div> <div>K K G L S S S S S C</div> <div>L L A G P S E N D P</div> <div>N H N G E W C E A Q</div> <div>R N A A E Y L L S S</div> <div>Y R I N T A S D G K</div> </div> <div> <div>Y L E E A L Q R P V</div> <div>N L F V A L Y D F V</div> <div>T K N G Q G W V P S</div> <div>G I N G S F L V R E</div> <div>L Y V S S E S R F N</div> </div> <div> <div>A S D F E P Q G L S</div> <div>A S G D N T L S I T</div> <div>N Y I T P V N S L E</div> <div>S E S S P G Q R S I</div> <div>T</div> </div>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>ABL1 is a 145 kDa protein that contains an N-cap, the tandem SH3, SH2 and SH1 domains, four proline-rich SH3 binding sites, three nuclear localization signals, one nuclear exporting signal, a DNA-binding domain, and an actin-binding domain. The ABL1 protein is implicated in a wide range of cellular processes, including regulation of cell growth and survival, oxidative stress and DNA-damage responses, actin dynamics and cell migration, transmission of information about the cellular environment through integrin signaling. ABL1 protein serves as a key hub that integrates signals from various extracellular and intracellular sources to control cell cycle and apoptosis<sup>[1][2]</sup>.</p>
------------	--

---

## REFERENCES

- [1]. Soverini S, et, al. Chronic myeloid leukemia: the paradigm of targeting oncogenic tyrosine kinase signaling and counteracting resistance for successful cancer therapy. Mol Cancer. 2018 Feb 19;17(1):49.
- [2]. Burslem GM, et, al. Targeting BCR-ABL1 in Chronic Myeloid Leukemia by PROTAC-Mediated Targeted Protein Degradation. Cancer Res. 2019 Sep 15;79(18):4744-4753.
- 

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA