

## CD157 Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P7792
<b>Synonyms:</b>	ADP-ribosyl cyclase; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; BST1; Cyclic ADP-ribose hydrolase 2; CD157
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q10588 (G29-K292)
<b>Gene ID:</b>	683
<b>Molecular Weight:</b>	Approximately 75 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> G A R A R W R G E G   T S A H L R D I F L   G R C A E Y R A L L   S P E Q R N K N C T A I W E A F K V A L   D K D P C S V L P S   D Y D L F I N L S R   H S I P R D K S L F W E N S H L L V N S   F A D N T R R F M P   L S D V L Y G R V A   D F L S W C R Q K N D S G L D Y Q S C P   T S E D C E N N P V   D S F W K R A S I Q   Y S K D S S G V I H V M L N G S E P T G   A Y P I K G F F A D   Y E I P N L Q K E K   I T R I E I W V M H E I G G P N V E S C   G E G S M K V L E K   R L K D M G F Q Y S   C I N D Y R P V K L L Q C V D H S T H P   D C A L K S A A A A   T Q R K - F c           t a g           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CD157, also known as bone marrow stromal cell antigen 1 (BST-1), is a pleiotropic ectoenzyme which belongs to the CD38 family and to the growing number of leukocyte surface molecules known to act independently as both receptors and enzymes. BST-1 is a glycosyl phosphatidylinositol-anchored protein that stimulates pre-B-cell growth and has adenosine
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diphosphate (ADP)-ribosyl cyclase and cyclic ADP-ribose (cADPR) hydrolase activity<sup>[1][2]</sup>.

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## REFERENCES

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[1]. Hussain AM, et, al. Functional expression of secreted mouse BST-1 in yeast. *Protein Expr Purif.* 1998 Feb;12(1):133-7.

[2]. Ortolan E, et, al. CD157, the Janus of CD38 but with a unique personality. *Cell Biochem Funct.* 2002 Dec;20(4):309-22.

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

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