

CD157 Protein, Human (HEK293, His)

Cat. No.:	HY-P7791
Synonyms:	rHuCD157, His; ADP-ribosyl cyclase; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; BST1; Cyclic ADP-ribose hydrolase 2; CD157
Species:	Human
Source:	HEK293
Accession:	Q10588 (G29-K292)
Gene ID:	683
Molecular Weight:	Approximately 37 kDa

PROPERTIES

AA Sequence	<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 H H H H H H </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4.
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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	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^{[1][2]}.

REFERENCES

[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.

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

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