

CD157 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7793
Synonyms:	rMuCD157, His; ADP-ribosyl cyclase; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; BST1; Cyclic ADP-ribose hydrolase 2; CD157
Species:	Mouse
Source:	HEK293
Accession:	Q64277 (A25-E285)
Gene ID:	12182
Molecular Weight:	35-45 kDa

PROPERTIES

AA Sequence	<pre> A R A R W R G E G T T P H L Q S I F L G R C A E Y T T L L S L G N K N C T A I W E A F K G V L D K D P C S V L P S D Y D L F I N L S R H P I P R D K S L F W E N N H L L V M S Y G E N T R R L V A L C D V L Y G K V G D F L S W C R Q E N A S G L D Y Q S C P T S E D C E N N A V D S Y W K S A S M Q Y S R D S S G V I N V M L N G S E P K G A Y P T R G F F A D F E I P Y L Q K D K V T R I E I W V M H D V G G P N V E S C G E G S V K I L E D R L E A L G F Q H S C I N D Y R P V K F L M C V D H S T H P D C I M N S A S A S M R R E 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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