

# Product Data Sheet

## 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

AA SequenceAR AR WR GE GT EAFK GVLDKDTPHLQSIFLG PCSVLPSDYD LFINLSRHPIRCAEYTTLLS PRDKSLFWEN NHLLVMSYGE NTRLVALCD VLYGKVGDFL SWCRQENASG LDYQSCPTSE DCENNAVDSY WKSASMQYSR DSSGVINVML NGSEPKGAYP TRGFFADFEI PYLQKDKVTR LEIWVMHDVG GPNVESCGEG SVKILEDRLE ALGFQHSCIN DYRPVKFLMCGR KNCTAIW PRDKSLFWEN SGVINVML DYRPVKFLMCBiological ActivityThe enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.AppearanceLyophilized powder.FormulationLyophilized after extensive dialysis against PBS, pH7.4.Endotoxin Level<1 EU/µg, determined by LAL method.	PROPERTIES	
A R A R W R G E G TT P H L Q S I F L GR C A E Y T T L L SL G N K N C T A I WE A F K G V L D K DP C S V L P S D Y DL F I N L S R H P IP R D K S L F W E NN H L L V M S Y G EN T R R L V A L C DV L Y G K V G D F LS W C R Q E N A S GL D Y Q S C P T S ED C E N N A V D S YW K S A S M Q Y S RD S S G V I N V M LN G S E P K G A Y PT R G F F A D F E IP Y L Q K D K V T RI E I W V M H D V GG P N V E S C G E GS V K I L E D R L EA L G F Q H S C I ND Y R P V K F L M CV D H S T H P D C IM N S A S A S M R RE H H H H H HD Y R P V K F L M CBiological ActivityThe enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.AppearanceLyophilized powder.FormulationLyophilized after extensive dialysis against PBS, pH7.4.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it recommended to ad a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & StabilityStored 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	TROTERTES	
ARARWRGEGTTPHLQSIFLGRCAEYTTLLSLGNKNCTAIWEAFKGVLDKDPCSVLPSDYDLFINLSRHPIPRDKSLFWENNHLLVMSYGENTRRLVALCDVLYGKVGDFLSWCRQENASGLDYQSCPTSEDCENNAVDSYWKSASMQYSRDSSGVINVMLNGSEPKGAYPTRGFFADFEIPYLQKDKVTRIEIWVMHDVGGPNVESCGEGSVKILEDRLEALGFQHSCINDYRPVKFLMCVDHSTHPDCIMNSASASMRREHHHHHHYRPVKFLMCVDHSTHPDCIKSASASMRREHHHHHHYRPVKFLMCVDHSTHPDCIKIStorage & StabilityStored 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	AA Sequence	
NHLLVMSYGE LDYQSCPTSE DCENNAVDSY WKSASMQYSR DSSGVINVML NGSEPKGAYP TRGFFADFEI PYLQKDKVTR LEIWVMHDVG GPNVESCGEG SVKILEDRLE ALGFQHSCIN DYRPVKFLMCBiological ActivityThe enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.AppearanceLyophilized powder.FormulationLyophilized after extensive dialysis against PBS, pH7.4.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & StabilityStored 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)		ARARWRGEGT TPHLQSIFLG RCAEYTTLLS LGNKNCTAIW
LDYQSCPTSEDCENNAVDSYWKSASMQYSRDSSGVINVMLNGSEPKGAYPTRGFFADFEIPYLQKDKVTRIEIWVMHDVGGPNVESCGEGSVKILEDRLEALGFQHSCINDYRPVKFLMCVDHSTHPDCIMNSASASMRREHHHHHHHHupphilized powder.Upphilized after extensive dialysis against PBS, pH7.4.IEU/µg, determined by LAL method.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & Stability		EAFKGVLDKD PCSVLPSDYD LFINLSRHPI PRDKSLFWEN
NGSEPKGAYP GPNVESCGEG SPXKILEDRLE ALGFQHSCIN UHSTHPDCIPYLQKDKVTR ALGFQHSCIN DYRPVKFLMC DYRPVKFLMCBiological ActivityThe enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.AppearanceLyophilized powder.FormulationLyophilized after extensive dialysis against PBS, pH7.4.Endotoxin Level-1 EU/µg, determined by LAL method.ReconsititutionIt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH2O. For long term storage it recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).Storage & StabilityStored 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 constitute).		NHLLVMSYGE NTRRLVALCD VLYGKVGDFL SWCRQENASG
GPNVESCGEG_SVKILEDRLE_ALGFQHSCIN_DYRPVKFLMC         WDHSTHPDCI       MNSASASMRR_EHHHHHHH         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.		LDYQSCPTSE DCENNAVDSY WKSASMQYSR DSSGVINVML
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### 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 phosphotidylinositol-anchored protein that stimulates pre-B-cell growth and has adenosine

### 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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