

**Synonym**

ADP-ribosyl cyclase 2, CD157

**Source**Human BST1, His Tag(BS1-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gly 29 - Ala 293 (Accession # [Q10588-1](#)).

Predicted N-terminus: Gly 29

**Molecular Characterization**

**BST1(Gly 29 - Ala 293)**  
**Q10588-1**

**Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 32.1 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

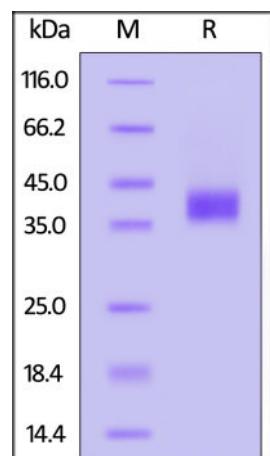
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

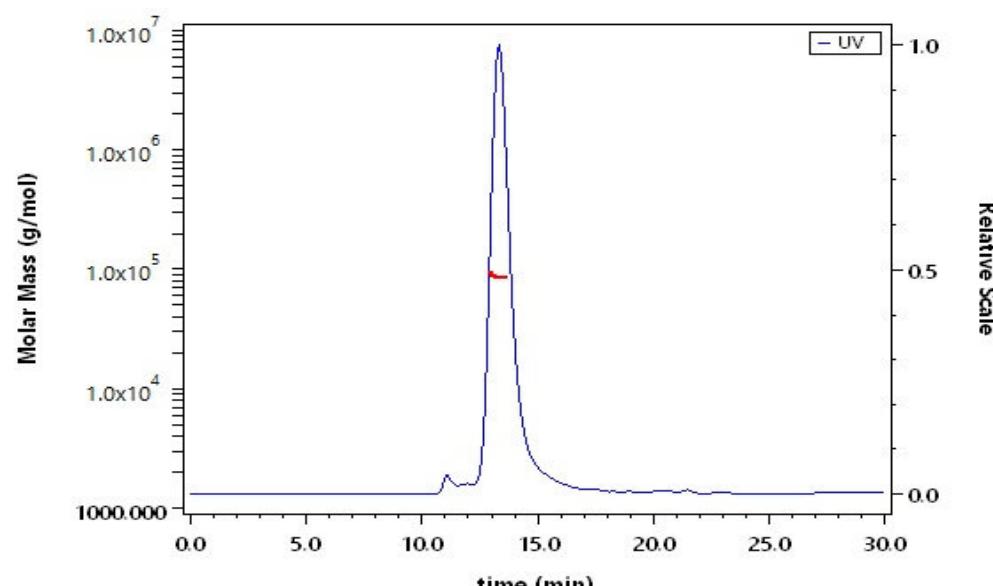
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human BST1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**SEC-MALS**

The purity of Human BST1, His Tag (Cat. No. BS1-H52H9) is more than 95% and the molecular weight of this protein is around 80-95 kDa verified by SEC-MALS.

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## Background

Bone marrow stromal cell antigen-1(BST-1) or CD157 is a stromal cell line-derived glycosylphosphatidylinositol-anchored molecule that belongs to the CD38 family. CD157 was discovered in a bone marrow stromal cell line where it facilitates pre-B-cell growth. BST1 expression is enhanced in bone marrow stromal cell lines derived from patients with rheumatoid arthritis. The polyclonal B-cell abnormalities in rheumatoid arthritis may be, at least in part, attributed to BST1 overexpression in the stromal cell population.

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