Product Data Sheet

Product Name:	BST1 Human
Cat. No.:	GP20124
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Bone Marrow Stromal Cell Antigen 1; ADP-Ribosyl Cyclase 2; Bone Marrow Stromal Antigen 1; Cyclic ADP-Ribose Hydrolase 2; NAD(+) Nucleosidase; CADPr Hydrolase 2; ADP-Ribosyl Cyclase/Cyclic ADP-Ribose Hydrolase 2; CD157 Antigen; EC 3.2.2.6; CD157; BST-1; ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; Cyclic ADP-ribose hydrolase 2; cADPr hydrolase 2.		
Amino Acid Sequence	RWRGEGTSAH LRDIFLGRCA EYRALLSPEQ RNKNCTAIWE AFKVALDKDP CSVLPSDYDL FINLSRHSIP RDKSLFWENS HLLVNSFADN TRRFMPLSDV LYGRVADFLS WCRQKNDSGL DYQSCPTSED CENNPVDSFW KRASIQYSKD SSGVIHVMLN GSEPTGAYPI KGFFADYEIP NLQKEKITRI EIWVMHEIGG PNVESCGEGS MKVLEKRLKD MGFQYSCIND YRPVKLLQCV DHSTHPDCAL KSAAAATQRK AHHHHHH.		
Formulation	BST1 protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

BST1 (Bone Marrow Stromal Cell Antigen 1), is a GPI (glycosylphosphatidylinositol) anchored membrane protein which is part of the CD38 family. BST1 was initially recognized as a bone marrow stromal cell molecule. BST1 is an ectoenzyme sharing more than a few features with ADP-ribosyl cyclase CD38. BST1 together with CD38, exhibit both DP-ribosyl cyclase and cyclinc ADP ribose hydrolase activities. BST1 participates in rheumatoid arthritis due to its enhanced expression in RA-derived bone marrow stromal cell lines. Moreover, BST1 is expressed by cells of the myeloid lineage and could perform as a receptor with a signal transduction capability.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

BST1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 267 amino acids (33-293a.a.) and having a molecular mass of 30.5kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa).BST1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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