Recombinant Human Tetherin/BST2 Protein (His Tag)

Catalog No. PKSH033296

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Synonyms	Bone Marrow Stromal Antigen 2;BST-2;HM1.24 Antigen;Tetherin;CD317;BST2	
Species	Human	
Expression Host	HEK293 Cells	
Sequence	Asn49-Ser161	
Accession	Q10589	
Calculated Molecular Weight	13.7 kDa	
Observed molecular weight	23 kDa	
Tag	C-His	
Bioactivity	Not validated for activity	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.	
Reconstitution	Please refer to the printed manual for detailed information.	

Data

kDa	MK	R
120 90		
60	-	
40		
30	terms -	
20	-	
14	-	

> 95 % as determined by reducing SDS-PAGE.

Background

Bone Marrow Stromal Antigen 2 (BST2) is a single-pass type II membrane protein that belongs to the tetherin family. BST2 is predominantly expressed in the liver; lung; heart and placenta. BST2 is involved in the sorting of secreted

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proteins. BST2 is a human cellular protein which inhibits retrovirus infection by preventing the diffusion of virus particles after budding from infected cells. BST2 is initially discovered as an inhibitor to HIV-1 infection in the absence of Vpu; it has also been shown to inhibit the release of other viruses such as retroviruses; filoviruses; arenaviruses; and herpes viruses. BST2 may play a role in B-cell activation in rheumatoid arthritis.

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