

# Human BST2 Protein

Cat. No. BST-HM202

## Description

<b>Source</b>	Recombinant Human BST2 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Asn49-Ser161.
<b>Accession</b>	Q10589-1
<b>Molecular Weight</b>	The protein has a predicted MW of 40 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Interferon-induced BST2 (bone marrow stromal cell antigen 2) inhibits viral replication by tethering enveloped virions to the cell surface to restrict viral release and by inducing the NFκB-dependent antiviral immune response. BST2 expression was significantly increased during porcine epidemic diarrhea virus (PEDV) infection of Vero cells by IRF1 targeting its promoter. Both the BST2 and N protein interacted with the E3 ubiquitin ligase MARCHF8/MARCH8 and the cargo receptor.

## Assay Data

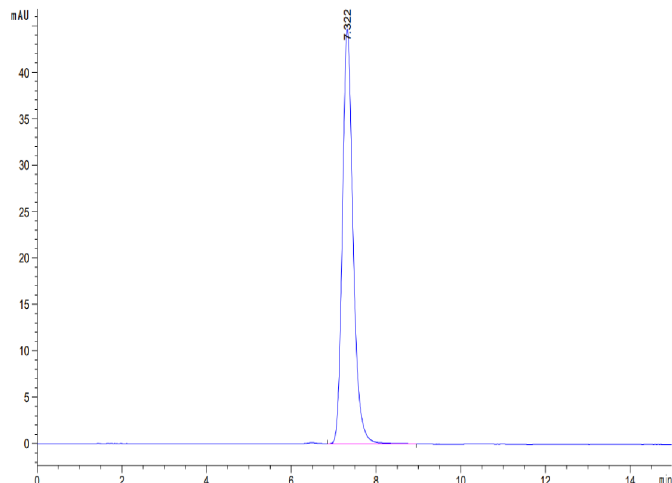
### Bis-Tris PAGE



Human BST2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

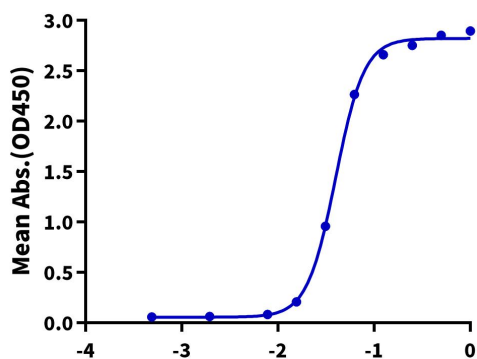
Assay Data



The purity of Human BST2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human BST2, hFc Tag ELISA**  
0.2µg Human BST2, hFc Tag Per Well



Immobilized Human BST2, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-BST2 Antibody, hFc Tag with the EC50 of 40.0ng/ml determined by ELISA.