Recombinant human BST-2/Tetherin protein

Catalog Number: ATGP1117

PRODUCT INFORMATION

Expression system
E.coli

Domain
50-161aa

UniProt No.
Q10589

NCBI Accession No.
NP_004326

Alternative Names
Bone marrow stromal antigen 2, HM1.24 antigen, Tetherin, CD317

PRODUCT SPECIFICATION

Molecular Weight
14.8 kDa (133aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
BST2, also known as bone marrow stromal antigen 2, is involved in the growth and development of B-cells. BST2 is a human cellular protein which inhibits retrovirus infection by preventing the diffusion of virus particles after budding from infected cells. Initially discovered as an inhibitor to HIV-1 infection in the absence of Vpu, tetherin has also been shown to inhibit the release of other viruses such as the Lassa and Marburg virions. Also, this protein may play a role in B-cell activation in rheumatoid arthritis. Recombinant human BST2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

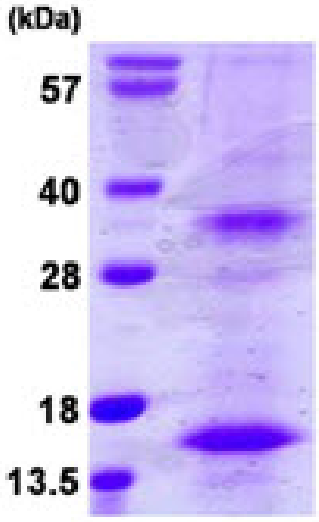
MGSSHHHHHH SSGLVPRGSH MSEACRDGLR AVMECRNVTH LLQQELTEAQ KGFQDVEAQA ATCNHTVMAL MASLDAEKAQ GQKKVEELEG EITTLNHKLQ DASAEVERLR RENQVLSVRI ADKKYYPSSQ DSS

General References

Van Damme N., et al. (2008) Cell Host Microbe. 3:245-252
Schubert HL., et al. (2010) Proc Natl Acad Sci u S A. 107(42):17951-6

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.