



Bone Marrow Stromal Cell Antigen 2, His Tag, human recombinant

Catalog No: 97419
Lot No: XXXXX
Source: *E. coli*
Synonyms: Bone marrow stromal cell antigen 2, CD317 antigen, BST-2, HM1.24 antigen, Tetherin, NPC-A-7

Background

BST2 takes part in the growth and development of B-cells. The human cellular protein BST2 inhibits retrovirus infection by maintaining the diffusion of virus particles after budding from infected cells. BST2 was originally discovered as an inhibitor to HIV-1 infection in the absence of Vpu, but it is also known to inhibit the release of other viruses such as the Lassa and Marburg virions. In addition, BST2 has a part in B-cell activation in rheumatoid arthritis.

Description

BST2 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 133 amino acids (50-161) and having a molecular mass of 14.8 kDa. BST2 is fused to a 21 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

BST2 protein 0.5 mg/ml is supplied in 20 mM Tris-HCl, pH 8, 0.1 M NaCl, 1 mM DTT and 20% glycerol.

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.

Purity

Greater than 80.0% as determined by SDS-PAGE.

Amino Acid Sequence

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

Usage

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