

Recombinant Mouse Bst2 Protein, Myc/DDK-tagged

Cat. No. Bst2-1897M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length bone marrow stromal cell antigen 2 (Bst2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description IFN-induced antiviral host restriction factor which efficiently blocks the release of diverse mammalian enveloped viruses by directly tethering nascent virions to the membranes of infected cells. Acts as a direct physical tether, holding virions to the cell membrane and linking virions to each other. The tethered virions can be internalized by endocytosis and subsequently degraded or they can remain on the cell surface. In either case, their spread as cell-free virions is restricted. Its target viruses belong to diverse families, including retroviridae: human immunodeficiency virus type 1 (HIV-1), mouse mammary tumor virus (MMTV) and murine leukemia virus (MLV), filoviridae: ebola virus (EBOV), arenaviridae: lassa virus (LASV), and rhabdoviridae: vesicular stomatitis virus (VSV). Can inhibit cell surface proteolytic activity of MMP14 causing decreased activation of MMP15 which results in inhibition of cell growth and migration. Can stimulate signaling by LILRA4/ILT7 and consequently provide negative feedback to the production of IFN by plasmacytoid dendritic cells in response to viral infection. Plays a role in the organization of the subapical actin cytoskeleton in polarized epithelial cells.

Molecular Mass 19.2 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Bst2 bone marrow stromal cell antigen 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Bst2
Synonyms	BST2; bone marrow stromal cell antigen 2; bone marrow stromal antigen 2; HM1.24 antigen; DAMP-1 protein homolog; GREG; Bst-2; C87040; DAMP-1; 2310015110Rik
Gene ID	69550
mRNA Refseq	NM_198095
Protein Refseq	NP_932763
UniProt ID	Q8R2Q8

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