Recombinant Protein Technical Manual

Recombinant Human CD157/BST1 Protein (His Tag)

RPES4772

Product Data:

Product SKU: RPES4772

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q10588

Protein Information:

Molecular Mass: 30.8 kDa

AP Molecular Mass: 37 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20℃, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; BST; Cyclic ADP-ribose hydrolase 2; cADPr hydrolase 2; CD157

Immunogen Information:

Sequence: Gly29-Lys292

Background:

The cluster of differentiation (CD) system is a glycosyl phosphatidylinositol anchored membrane protein that belongs to the CD38 family. It is generally used in immunophynotyping. CD157 was discovered in a bone marrow stromal cell line where it facilitates pre-B-cell growth. CD157 is a bifunctional ectoenzyme that exhibits both ADP-ribosyl cyclase and cyclic ADP ribose hydrolase activities followed with CD38. It plays a role in rheumatoid arthritis (RA) due to its enhanced expression in RA-derived bone marrow stromal cell lines. Studies have shown that this protein have a role in predicted to function as a cell surface receptor and an immunoregulatory molecule.