

Epstein Barr Virus Induced 3, human recombinant, (rHuEBI3)

Catalog No: 97374
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-27 subunit beta, IL-27 subunit beta, IL-27B, Epstein-Barr virus-induced gene 3 protein, EBV-induced gene 3 protein, EBI3, IL27B

Background

EBI3 has an induced expression in B lymphocytes in reaction to Epstein-Barr virus infection. EBI3 encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form iIL-27. EBI3 drives rapid clonal expansion of naive cd4(+) t-cells. EBI3 strongly synergizes with IL-12 to activate IFN-gamma production of naive cd4(+) t-cells. EBI3 mediates its biologic effects through the cytokine receptor wsx-1/tccr.

Description

EBI3 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 209 amino acids (21-229) and having a molecular weight of 23.3 kDa. EBI3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

EBI3 human recombinant was lyophilized from a solution containig 10 mM acetic acid and 0.5% mannitol.

Solubility

It is recommended to reconstitute the lyophilized EBI3 in sterile 10 mM acetic acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized EBI3, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EBI3 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 90% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

RKGPPAALT L PRVQCRASRY PIAVDCSWTL PPAPNSTSPV SFIATYRLGM AARGHSWPCL QQTPTSTSTCT ITDVQLFSMA
PYVLNVTAVH PWGSSSSFVP FITEHIIKPD PPEGVRLSPL AERQLQVQWE PPGSWPFPEI FSLKYWIRYK RQGAARFHRV
GPIEATSFIL RAVRPRARYY VQVAAQDLTD YGELSDWSLP ATATMSLGK

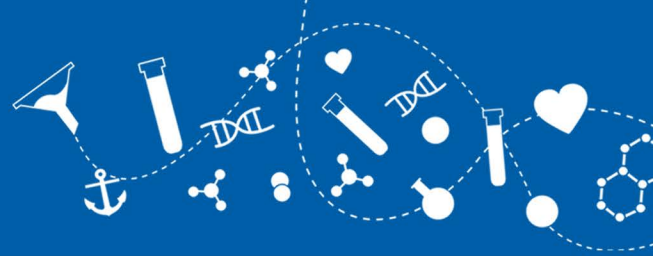
Activity

Assay data for human recombinant EBI3 is based upon qualitative binding to anti-EBI3 antibody.

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