



Epstein Barr Virus Induced 3, mouse recombinant (rmEBI-3)

Catalog No: 97224
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL-27B, IL27B, IL 27-B, EBI-3, Interleukin-27 beta, IL-27 subunit beta, Epstein-Barr virus-induced gene 3 protein homolog, EBI3

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 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 207 amino acids and having a molecular mass of 22.9 kDa. Murine EBI3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

EBI3 was lyophilized from 10 mM sodium citrate pH 3.

Solubility

It is recommended to reconstitute the lyophilized EBI3 in sterile 18 M Ω -cm H₂O not less than 100 μ g/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

MALVALSQPR VQCHASRYPV AVDCSWTPLQ APNSTRSTSF IATYRLGVAT QQSQPCLQR SPQASRCTIP DVHLFSTVPY
MLNVTAVHPG GASSLLAFV AERIIKPDPP EGVRLRTAGQ RLQVLWHPPA SWFPDIFSL KYRLRYRRRG ASHFRQVGPI
EATTFTLRNS KPHAKYCIQV SAQDLTDYGK PSDWSLPGQV ESAPHKP

Usage

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