

BACKGROUND

Epstein-Barr Virus Induced Gene-3 (EBI3), is a secreted glycoprotein belonging to the hematopoietin receptor family and is related to the p40 subunit of IL-12. EBI3 was identified by its induced expression in B-lymphocytes in response to Epstein-Barr virus infection. EBI3 forms heterodimers with p28 to form IL-27 and with p35 to form IL-35. Both IL-27 and IL-35 have anti-inflammatory and regulatory activity.

Recombinant mouse EBI3 is a non-glycosylated protein, consisting of 207 amino acids with a molecular weight of 22.9 kDa.

Alternative Names:

IL-35/EBI3, IL-27 EBI3 subunit

Amino Acid Sequence:

MALVALSQPR VQCHASRYPV AVDCSWTPLQ APNSTRSTSF
IATYRLGVAT QQQSQPCLQR SPQASRCTIP DVHLFSTVPY
MLNVTAVHPG GASSLLAFV AERIIPDPP EGVRLRTAGQ
RLQVLWHPA SWPFDIFSL KYRLRYRRRG ASHFRQVGPI
EATFTLRNS KPHAKYCIQV SAQDLTDYGK PSDWSLPGQV
ESAPHKP

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant mouse EBI3 is lyophilized from 10 mM Sodium Citrate, pH 3.0.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

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

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

