

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 human EBI3 is a non-glycosylated protein, consisting of 209 amino acids and having a molecular weight of 23.3 kDa.

Alternative Names:

IL-35/EBI3, IL-27/EBI3

Amino Acid Sequence:**TECHNICAL INFORMATION**

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human EBI3 lyophilized with no additives.

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:

Recombinant human EBI3 is determined by qualitative binding to an anti-EBI3 antibody.

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

