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## Product Data Sheet

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Product Name: EBI3 Macaque  
 Cat. No.: GP20165  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	MRKGPPAALT LPRVQCRAPR YPIAVDCSWT LPPAPNSTSP VSFIATYRFG MAARGHSWPC LQQTPASTSC TIADVRLFMS APYVLNVTAV HPWGSSSSFV PFIAEHIKP DPPEGVRLSP LAERQLQVQW EPPRSWPFPE IFSLKYWIRY KRQGAARFHQ VGPIEATSEFI LRAVRPRARY CVQVAAQDLT DYGELSDWSL PATTPMSPGK.		
Solubility	It is recommended to reconstitute the lyophilized EBI3 in sterile 18MΩ-cm H <sub>2</sub> O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA).		

### Introduction

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.

### Stability

Lyophilized EBI3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution EBI3 Macaque should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is

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recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

EI13 Macaque Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 210 amino acids and having a molecular mass of 23.4kDa. The EI13 is purified by proprietary chromatographic techniques.

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