

# Recombinant Human Epstein-Barr Virus Induced 3, His-tagged

**Cat. No.** EBI3-4135H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | EBI3 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 209 amino acids fragment (21-229) having a molecular weight of 34kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The EBI3 is purified by proprietary chromatographic techniques.                                                                                                                                                                               |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>       | 21-229 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>         | 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. |
| <b>Form</b>                | EBI3 protein is supplied in 1xPBS, 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>              | Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Physical Appearance</b> | Sterile Filtered clear solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>             | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for                                                                                                                                                                                                                                                                                                                                                                                              |

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longer periods of time. Please avoid freeze thaw cycles.

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | EBI3 Epstein-Barr virus induced 3 [ Homo sapiens ]                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | EBI3                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | EBI3; Epstein-Barr virus induced 3; IL27B; cytokine receptor; interleukin-27 subunit beta; Epstein-Barr virus induced gene 3; See EBI3 in MapViewer; IL-27 subunit beta; IL-27B; Epstein-Barr virus-induced gene 3 protein; EBV-induced gene 3 protein |
| <b>Gene ID</b>             | 10148                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_005755                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_005746                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 605816                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | Q14213                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 19p13.3                                                                                                                                                                                                                                                |
| <b>Function</b>            | cytokine activity; cytokine receptor activity; interleukin-27 receptor binding; protein binding                                                                                                                                                        |

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