

Recombinant Human IL-35 Heterodimer Protein

Cat. No. EBI3-72H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-35 Heterodimer Protein without tag was expressed in E. coli.
Species	Human
Source	HEK293
Description	Interleukin 35 (IL-35) is a member of the IL-12 cytokine family and is produced by regulatory T cells (Tregs). IL-35 is a heterodimeric cytokine that is comprised of the p35 subunit (IL-12A) and the Epstein-Barr virus induced gene 3 subunit (EBI3/IL-27B). IL-35 binds the IL-12Rbeta2/gp130 hetero- and homodimers to activate STAT1 and STAT4 signaling. IL-35 functions as a suppressor of immune cell inflammatory responses.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Single chain dimer, 45.8/ 60-65 unreduced 70-80 reduced kDa (406 aa)
AA Sequence	EBI3: RKGPPAALTLPVQCASRYPIAVDCSWTLPPAPNSTSPVSFIATYRLGMAAR GHSWPCQLQQTPTSTSTCTITDVQLFSMAPYVLNVTAVHPWGSSSFVFPFITEHIIKPDP PEGVRLSPLAERQLQVQWEPPGSWPFPEIFSLKYWIRYKRQGAARFHRVGPIEATS FILRAVRPRARYYVQVAAQDLTDYGELSDWSLPATATMSLGK p35: RNLPVATPDPMFPCLLHHSQNLRAVSNMLQKARQTLEFYPCTSEEIDHEDITK DKTSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMY QVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKT KIKLCILLHAFRIRAVTIDRVMSYLNAS

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Endotoxin	≤5 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 30 mM sodium chloride, pH7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Ice pack
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	EBI3 Epstein-Barr virus induced 3 [Homo sapiens (human)]
Official Symbol	EBI3
Synonyms	EBI3; Epstein-Barr virus induced 3; interleukin-27 subunit beta; IL27 subunit; IL35 subunit; cytokine receptor; IL-27 subunit beta; EBV-induced gene 3 protein; Epstein-Barr virus induced gene 3; epstein-Barr virus-induced gene 3 protein; IL27B; IL-27B;

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Gene ID	10148
mRNA Refseq	NM_005755
Protein Refseq	NP_005746
MIM	605816
UniProt ID	Q14213

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