

## 32-1521: IL35 Recombinant Protein

### Description

Source : HEK 293 cells. IL35 Human Recombinant produced in HEK 293 cells is comprised of a p35 subunit from IL-12 (Accession # p29459) and a EBI3 (Accession # q14213) subunit from IL-27. IL35 is a heterodimeric polypeptide chain containing 442 amino acids, with a predicted molecular weight of 49 kDa. From N terminus to C terminus, the molecule is comprised of a poly His tag, the EBI3 subunit, a G rich linker and the p35 subunit. Interleukin-35 is a glycosylated, disulfide-linked, heterodimeric protein comprised of the p35 subunit of IL-12 (IL-12 alpha) and the beta subunit of IL-27 (EBI3). IL35 is expressed by regulatory T-cells (Tregs), macrophages and some trophoblast and dendritic cells. IL-35 is produced in response to inflammation and generally serves as an inflammation suppressor. Interleukin-35 curbs inflammation by applying multiple activities, including the stimulation of regulatory T-cells and the inhibition of Th17 cells.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from a concentrated solution containing 10mM Na <sub>2</sub> PO <sub>4</sub> pH 7.5 and 30mM NaCl.
<b>Storage condition :</b>	Lyophilized IL35 although stable at room temperature for 3 weeks, should be stored desiccated below -180C. Upon reconstitution IL35 should be stored at 40C between 2-7 days and for future use below -180C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	EBI3 subunit: RKGPPAALTL PRVQCRASRY PIAVDCSWTL PPAPNSTSPV SFIATYRLGM AARGHSWPCL QQTPTSTSTCT ITDVQLFSMA PYVLNVTAVH PWGSSSSFVP FITEHIKPD PPEGVRLSPL AERQLQVQWE PPGSWPFPEI FSLKYWIRYK RQGAARFHRV GPIEATSFIL RAVRPRARYY VQVAAQDLTD YGELSDWSLP ATATMSLGKp35 subunit: RNLPVATPDP GMFPCLHHSQ NLLRAVSNML QKARQTLEFY PCTSEEIDHE DITKDKTSTV EACLPLELTK NESCLNSRET SFITNGSCLA SRKTSFMMAL CLSSIEDLK MYQVEFKTMN AKLLMDPKRQ IFLDQNMALV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV MSYLNAS

### Application Note

It is recommended to reconstitute the lyophilized IL35 in sterile 18MΩ·cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

