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YBC008Hu01 50µg

Recombinant Interleukin 35 (IL35)

Organism Species: Homo sapiens (Human)

Instruction manual

**FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES**

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Residues: The IL35 complex composed of IL27B subunit (Arg21-Lys229) and the mature form of human IL12A (Arg23-Ser219) linked by a polypeptide linker (GGGS)₃, with N-terminal His-Tag.

Host: *E. coli*

Purity: >95%

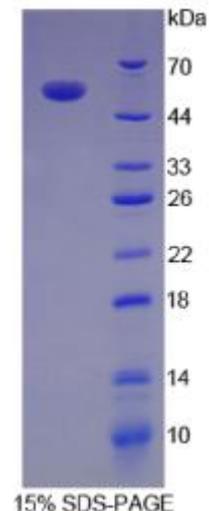
Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Formulation: Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and preservative.

Predicted isoelectric point: 8.7 **Predicted Molecular Mass:** 49.0kDa

Accurate Molecular Mass: 55kDa as determined by SDS-PAGE reducing conditions. **Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)



The possible reasons that the actual band size differs from the predicted are as follows:

Note:

1. **Splice variants:** Alternative splicing may create different sized proteins from the same gene.
2. **Relative charge:** The composition of amino acids may affects the charge of the protein.
3. **Post-translational modification:** Phosphorylation, glycosylation, methylation etc.
4. **Post-translation cleavage:** Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. **Polymerization of the target protein:** Dimerization, multimerization etc.



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[USAGE]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHSG SEFELRRQ- RKGPPAALTL PRVQCASRY PIAVDCSWTL PPAPNSTSPV
SFIATYRLGM AARGHSWPCL QQTPTSTSTCT ITDVQLFSMA PYVLNVTAVH PWGSSSSSFVP
FITEHIKPD PPEGVRLSPL AERQLQVQWE PPGSWPFPEI FSLKYWIRYK RQGAARFHRV
GPIEATSFIL RAVRPRARYY VQVAAQDLTD YGELSDWSLP ATATMSLGKS GGGGSGGGGS
GGGGSRNLPV ATPDPGMFPC LHHSQNLLRA VSNMLQKARQ TLEFYPTSE EIDHEDITKD
KTSTVEACLP LELTKNESCL NSRETSFITN GSCLASRKTS FMMALCLSSI YEDLKMYQVE
FKTMNAKLLM DPKRQIFLDQ NMLAVIDELM QALNFNSETV PQKSSLEEPD FYKTKIKLCI
LLHAFRIRAV TIDRVTSYLN AS

[REFERENCES]

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2. Collison LW., *et al.* (2007) Nature 450 (7169): 566–9.
3. Niedbala W., *et al.* (2007) Eur. J. Immunol. 37 (11): 3021–9.
4. Collison LW., Vignali DA. (2008) Immunol. 226:248-62.