

BACKGROUND:

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 interleukin 12 subunit P35 (IL-12a) and the interleukin 27 subunit beta (IL-27b) chains. 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.

Recombinant human Interleukin 35 is a non-glycosylated protein Single chain dimer, containing 406 amino acids and having a molecular mass of 45.8 kDa / 60-65 unreduced 70-80 reduced.

Cat. No.:
RP1049

AA Sequence:

EBI3:
RKGPPAALTLPRVQCASRYPIAVDCSWTLPPAPNSTSP
VSFIATYRLGMAARGHSWPCLOQTPTSTCTITDVQLF
SMAPYVLNVTAVHPWGSSSFVPFITEHIIKPDPPPEGVR
LSPLAERQLQVQWEPPGSGWPFPEIFSLKYWIRYKRQGA
ARFHRVGPPIEATSFILRAVRPRARYVQVAAQDLTDYGE
LSDWSLPATATMSLGK

p35:
RNLPVATPDPMFCLHHSQNLRAVSNMLQKARQTLE
FYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSR
ETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFK
TMNAKLLMDPKRQIFLDQNMPLAVIDELMQALNFNSETV
PQKSSLEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLN
AS

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
10 mM sodium phosphate, 30 mM sodium chloride, pH7.5

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

