

BACKGROUND

Interleukin-17E (IL-17E), also commonly called IL-25, is a pro-inflammatory cytokine member of a six-species family of proteins (IL-17A-17F). IL-17F stimulates secretion of IL-8 and induces activation of NF- κ B by binding to the receptor IL-17RB.

Recombinant rat IL-17E is a non-glycosylated, disulfide-linked homodimer, containing two 145 amino acid proteins and having a total molecular mass of 35.5 kDa.

Alternative Names:

IL-25

Amino Acid Sequence:

CSHLPRCCPS KQEFPEEWL KWNPAVSP EPLRHTTHPE
SCRASKDGPL NSRAISPWSY ELDRDLNRVP QDLYHARCLC
PHCVSLQTGS HMDPMGNSVP LYHNQTVFYR RPCHGEQGAH
GRYCLERRLY RVSLACVCVR PRMMA

TECHNICAL INFORMATION**Source:** *E.coli***Physical Appearance:**

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant rat IL-17E is lyophilized with no additives.

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 20 mM HCl at a concentration of 0.1 mg/ml before further dilutions into other buffers can be made.

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.

Biological Activity:

The activity is measured by the dose-dependent induction of mouse IL-5 production in cultured mouse splenocytes and is typically 20-100 ng/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

