

# Recombinant Human IL-38

Catalog # FL017

## Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rHuIL-38 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Human
Tag	Tag free.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution of 20 mM PB, with 150 mM NaCl, pH 6.0.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
Accession #	Q8WWZ1 Met1-Trp152
Amino acid sequence	MCSLPMARYYIIKYADQKALYTRDQQLLVGDPVADNCCAEEKICILPNRGLARTKVPIFLGIQGGSRCLACVETEESLQLED VNIEELYKGGEEATRFTFFQSSSGSAFRLEAAAWPGWFLCGPAEPQQPVQLTKESEPSARTKFYFEQSW
Molecular weight	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
Synonyms	Interleukin 1 family member 10, IL1F10, FIL1-theta, FKSG75, IL-1HY2, IL1-theta
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Human IL-38 is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

IL-38, belongs to the IL-1 family, expresses in the fetal skin, spleen and tonsil, mostly in the basal epithelia of skin and in proliferating B cells of the tonsil. IL-38 can bind soluble IL-1 receptor type 1 and may be involved in the regulation of adapted and innate immune responses. Alone, does not induce cytokine production, but reduces IL22 and IL17A production by T-cells in response to heat-killed *Candida albicans*. Reduces IL36γ-induced production of IL8 by peripheral blood mononuclear cells. Increases IL6 production by dendritic cells stimulated by bacterial lipopolysaccharides (LPS). Two alternatively spliced transcript variants encoding the same Protein have been reported. Recombinant human IL-38 is a 16.9kDa protein containing 152 amino acid residues.

