Recombinant Human IL17A

Cat No:HR2R1549

For research use only

Overview

Quantity	500 ?g
Gene Symbol	IL17A
Gene ID	3605
Accession	Q16552
Alternative Name	IL-17, CTLA-8, IL-17A, Cytotoxic T-lymphocyte-associated antigen 8 Recombinant Human Interleukin-17A (IL17A)
Species	Human
Source	E. coli
Description	The founding member of the IL17 family of cytokines, IL17A plays an important role in antimicrobial and chronic inflammation. All the six IL17 cytokines (IL17A-F) share a cystine knot fold and are secreted as homodimers. Mature human IL17A shares 60% amino acid sequence identity with rat and mouse IL17A. IL17 cytokines bind to two receptors; IL17RA and IL17RC that together form a heterodimer. The receptor heterodimer is preferred by IL17 ligands, and thus, either IL17RA or IL17RC knockouts completely abolish IL17 signalling. Recombinant human IL17A is a non-glycosylated, 32 kDa disulfide-linked homodimer.
Functions	The ED(50), as determined by the dose-dependent proliferation of induction of IL6 in primary human foreskin fibroblasts was found to be approximately 2.0 ng/mL, corresponding to a specific activity of > 5.0 x 10^5 units/mg
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS (pH 7.5)
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	16
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.