DATASHEET

Recombinant Human Interleukin-17A

CAT. NO. ARP6636

KEY FEATURES

Target	Interleukin-17A	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuIL-17A	Synonyms	IL-17, CTLA-8

BACKGROUND

The originally described IL-17 protein, now known as IL-17A, is a homodimer of two 132 amino acid chains that are secreted by activated T-cells, which act on stromal cells to induce production of proinflammatory and hematopoietic bioactive molecules. Human Interleukin-17A (IL-17A) is encoded by the IL17A gene located on the chromosome 6 and belongs to the IL-17 family that contains IL-17A, IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. The six known members of this family are secreted as homodimers. Human IL-17 exhibits 63% amino acid identity with mouse IL-17，IL-17A exhibits cross-species bioactivity between human and murine cells. Recombinant Human IL-17A is a 31.0kDa, disulfide-linked homodimer of two 132 amino acid polypeptide chains.

PRODUCT OVERVIEW

Molecular Weight	Approximately 31.0 kDa, a homodimer of two 132 amino acid polypeptide chains.
Accession	Q16552 Gly24-Ala154 with a N-terminal Met
A.A. Sequence	MGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPSVIWEAKCRHL GCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTPIVHHVA
Purity	＞95% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 7.5 ng/ml, corresponding to a specific activity of ≥1.3×10^5 IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuIL-17A protein as determined by LAL method.
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.

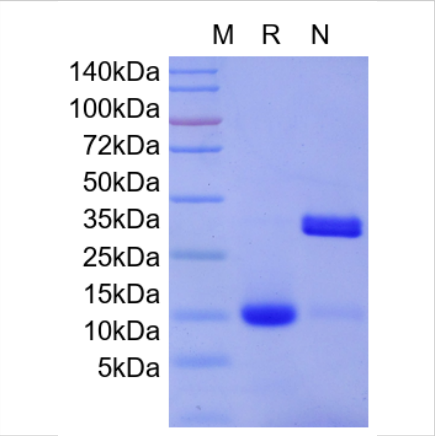
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STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 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.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.