

Recombinant Rat IL-17A

Information

Gene ID	
Accession #	Q61453
Alternate Names	
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 30.0 kDa, a disulfide-linked homodimer of two 133 amino acid polypeptide chains.
AA Sequence	AVLIPQSSVC PNAEANNFLQ NVKVNLIKVIN SLSSKASSRR PSDYLNKSTS PWTLSRNEDP DRYPSVIWEA QCRHQRCVNA EGKLDHMMNS VLIQQEILVL KREPEKCPFT FRVEKMLVGV GCTCVSSIVR HAS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 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.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 6.5.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl 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.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5 µg	100 µg	500 µg
Recombinant Rat IL-17A	5 µg	100 µg	500 µg

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Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 0.1 EU/μg of rRtIL-17A as determined by LAL method.

Description

IL-17A, also named CTLA8 and IL17, is belonging to the IL-17 family and is encoded by the IL-17A gene in humans. The IL-17 family is comprised of at least six proinflammatory cytokines that share a conserved cysteine-knot structure but diverge at the Nterminus. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases, and can stimulate the expression of IL-6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17 family members are glycoproteins secreted as dimers that induce local cytokine production and recruit granulocytes to sites of inflammation.

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