产品名称: GMP Recombinant Human TNF-α

产品货号: PCH90043



概述 (Summary)

英文全称 TNF-α

纯度 (Purity) Greater than 95% as determined by reducing SDS-PAGE

内毒素 (Endotoxin level) ≤10 EU/mg

蛋白构建 (Construction) Recombinant Human TNF-α is produced by our Mammalian cell

expression system and the target gene encoding Val77-Leu233 is

expressed.

Accession # P01375 蛋白标签 (Tag) Tag free

表达宿主 (Host) Mammalian cell

种属 (Species)Human预测分子量 (Predicted MW)17.4 kDa蛋白形态 (Form)Lyophilized

储存缓冲液 (Buffer) PBS, 5% mannitol

and 0.01% Tween 80, pH 7.4

运输方式 (Shipping) The product is shipped at ambient temperature. Upon receipt, store it

immediately at the temperature listed below.

稳定性&储存 (Stability &Storage) 36 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C

under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under

sterile conditions after reconstitution. Please minimize freeze-thaw cycles.

复溶 (Reconstitution) Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It

is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the

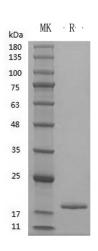
reconstituted solution to minimize freeze-thaw cycles.

电泳图 (SDS-PAGE image)

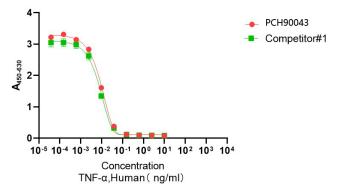
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活性验证图 (Bioactivity image)



The ED50 for this effect is 5-60 pg/mL.

背景 (Background)

分子别名 (Alternative Names)

背景介绍 (References)

umor Necrosis Factor; Cachectin; TNF-Alpha; Tumor Necrosis Factor Ligand Superfamily Member 2; TNF-a; TNF; TNFA; TNFSF2

Tumor Necrosis Factor- α (TNF- α) is secreted by macrophages, monocytes, neutrophils, T-cells, and NK-cells following stimulation by bacterial LPS. Cells expressing CD4 secrete TNF- α while cells that express CD8 secrete little or no TNF- α . Synthesis of TNF- α can be induced by many different stimuli including interferons, IL2, and GM-CSF. The clinical use of the potent anti-tumor activity of TNF- α has been limited by the proinflammatory side effects such as fever, dose-limiting hypotension, hepatotoxicity, intravascular thrombosis, and hemorrhage. Designing clinically applicable TNF- α mutants with low systemic toxicity has been of intense pharmacological interest. Human TNF- α that binds to murine TNF-R55 but not murine TNF-R7, exhibits retained anti-

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tumor activity and reduced systemic toxicity in mice compared with murine TNF- α , which binds to both murine TNF receptors. Based on these results, many TNF- α mutants that selectively bind to TNF-R55 have been designed. These mutants displayed cytotoxic activities on tumor cell lines in vitro and have exhibited lower systemic toxicity in vivo. Recombinant Human TNF- α High Active Mutant differs from the wild-type by amino acid subsitution of amino acids 1-7 with Arg8, Lys9, Arg10 and Phe157. This mutant form has been shown to have increased activity with less inflammatory side effects in vivo.

注意事项 (Note)

For research use only .