PA1096

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Human Interleukin-19 (IL-19) - Purified

Alternate names: IL19

Catalog No.: PA1096

Quantity: 2 µg

Concentration: 1 mg/ml (prior to lyophil.)

Background: IL19 is a cytokine that belongs to the IL10 cytokine subfamily. IL-19 is found to be preferentially expressed in monocytes. It can bind the IL20 receptor complex and lead to the activation of the signal transducer and activator of transcription 3 (STAT3). A similar cytokine in mouse is reported to up-regulate the expression of IL6 and TNF-alpha and induce apoptosis, which suggests a role of this cytokine in inflammatory responses. Alternatively spliced transcript variants encoding the distinct isoforms have been described.

Species: Human

Source: E. coli, E.coli

Format:
State: Lyophilized
Purity: >98% Purified by proprietary chromatographic techniques, sterile Filtered, purity is greater than 99.0 % as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.
Buffer System: 10 mM sodium citrate pH 5.
Reconstitution: Sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Description: Interleukin-19 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 155 amino acids.
AA Sequence:
`The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Arg-Arg-Cys.`
Biological Activity: The activity is determined by it's ability to activate STAT following receptor-ligand interaction.
Molecular weight: 18 kDa 17913 Dalton.

Storage: Lyophilized product is stable at room temperature for one month, should be stored desiccated below -20 °C. Upon reconstitution it should be stored at 2 – 8 °C up to one week and for future use below -20 °C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Okayama N, Suehiro Y, Hamanaka Y, Nakamura J, Hinoda Y. Association of interleukin-19 gene polymorphisms with age. J Gerontol A Biol Sci Med Sci. 2007 May;62(5):507-11. PubMed PMID: 17522354.

2. Zdanov A. Structural studies of the interleukin-19 subfamily of cytokines. Vitam Horm. 2006;74:61-76. PubMed PMID: 17027511.
3. Hsing CH, Hsieh MY, Chen WY, Cheung So E, Cheng BC, Chang MS. Induction of interleukin-19 and interleukin-22 after cardiac surgery with cardiopulmonary bypass. Ann Thorac Surg. 2006 Jun;81(6):2196-201. PubMed PMID: 16731153.
4. Chen PJ, Wei CC, Wang C, Chen FW, Hsu YH, Chang MS. Promoter analysis of interleukin 19. Biochem Biophys Res Commun. 2006 Jun 9;344(3):713-20. Epub 2006 Apr 7. PubMed PMID: 16631120.
5. Otkjaer K, Kragballe K, Funding AT, Clausen JT, Noerby PL, Steiniche T, et al. The dynamics of gene expression of interleukin-19 and interleukin-20 and their receptors in psoriasis. Br J Dermatol. 2005 Nov;153(5):911-8. PubMed PMID: 16225599.
6. Li HH, Lin YC, Chen PJ, Hsiao CH, Lee JY, Chen WC, et al. Interleukin-19 upregulates keratinocyte growth factor and is associated with psoriasis. Br J Dermatol. 2005 Sep;153(3):591-5. PubMed PMID: 16120148.

Pictures:

Precursor- Protein structure and amino acid sequence