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PA1096X

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Human Interleukin-19 (IL-19) - Purified

Alternate names: IL19
Catalog No.: PA1096X
Quantity: 10 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 18M Ω -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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



OG/20130615



- 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

