

Datasheet for ABIN1096894 IL-11 Protein



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Overview

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| Quantity: | 50 µg |
| Target: | IL-11 (IL11) |
| Origin: | Human |
| Source: | Yeast (<i>Pichia pastoris</i>) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Application: | Functional Studies (Func) |

Product Details

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| Purpose: | Recombinant Human Interleukin-11/IL-11 |
| Sequence: | GPPPGPPRVS PDPRAELDST VLLTRSLAD TRQLAAQLRD KFPADGDHNL DSLPTLAMSA GALGALQLPG VLTRLRADLL SYLRHVQWLR RAGGSSLKTL EPELGTQAR LDRLLRRLQL LMSRLALPQP PPDPPAPPLA PPSSAWGGIR AAHAILGGLH LTLDWAVRGL LLLKTRL |
| Characteristics: | Recombinant Human Interleukin-11/IL-11 is produced in <i>P. pastoris</i> by recombinant DNA technology. The protein has a molecular mass of approximately 19,0 kDa and is non-glycosylated. The protein is 177 amino acids in length and differs from the 178 amino acid length of native IL-11 by lacking the amino-terminal praline residue. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Sterility: | 0.2 µm filtered |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test |

Target Details

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| Target: | IL-11 (IL11) |
| Alternative Name: | il-11 (IL11 Products) |
| Background: | <p>Interleukin 11 (IL-11) is a thrombopoietic growth factor that directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. IL-11 is a member of a family of human growth factors that includes human growth hormone, granulocyte colony-stimulating factor, and other growth factors.</p> <p>Alternative Names: Interleukin-11, IL-11, Adipogenesis Inhibitory Factor, AGIF, Oprelvekin, IL11</p> |
| Molecular Weight: | 19 kDa |
| UniProt: | P20809 |
| Pathways: | JAK-STAT Signaling , Negative Regulation of Hormone Secretion |

Application Details

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| Comment: | Biological activity: ED50 is less than 0.2 ng/ml as determined by the dose-dependent stimulation of murine 7TD1 proliferation. Specific Activity of 8.0 x 10 ⁶ IU/ mg. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Lyophilized |
| Reconstitution: | <p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p> |
| Buffer: | Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 2 % Glycine, pH 7.2. |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. |
| Storage: | 4 °C/-20 °C/-80 °C |
| Storage Comment: | <p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p> |
| Expiry Date: | 3 months |