|  |
| --- |
| Data Sheet |
|  |
| Product Information |
| **Product Name** | **:** | **Recombinant Human Interleukin-7 (rhIL-7)** |
| **Synonyms** | **:**  | IL7, IL-7, interleukin 7,  |
| **Description** | **:** | Interleukin 7 (IL-7) is a protein that in humans is encoded by the IL7 gene. IL-7 is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells, but is not produced by normal lymphocytes. IL-7 as an immunotherapy agent has been examined in many pre-clinical animal studies and more recently in human clinical trials for various malignancies and during HIV infection. (Ref. From Wikipedia) |
| **NCBI Accession No.** |  | NM\_000880.3 |
| **Amino acid sequence** | **:** | **MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDGKQYESVLMVSIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRLLQEIKTCWNKILMGTKEH** |
| **Molecular Mass** | **:** | 17.48 kDa (153 aa) |
| **Protein Tags** | **:** | No tagging |
| **Source** | **:** | *E. coli.* |
| **Cat. No.** | **:** | JW-H019-0010, JW-H019-0025, JW-H019-0050, JW-H019-0100, JW-H019-0250, JW-H019-0500, JW-H019-1000 |
| **Storage** | **:** | Should be at ≤ -70 ℃ as undiluted aliquots of handy size. Avoid repeated freezing and thawing. |
| **Cross Reactivity** | **:** | Human, Mouse Rat, Monkey, Pig |

|  |
| --- |
| Quality Control |
| **Test items** |  | **Specifications** |
| **Appearance** | **:** | Clear, colorless liquid |
| **Purity** | **:** | Greater than 98 % by RP-HPLC and SDS-PAGE |
| **Specificity** | **:** | Using Western blot, detection | C:\Users\Administrator\Desktop\datasheet-hIL7.jpg |
| **Concentration** | **:** | 0.1 mg/㎖, Bradford method |
| **Biological Activity** | **:** | Determined by proliferation of 2E8 indicator cells. The ED50 is <0.1 ng/ml, corresponding to a specific activity of > 1.0 × 107 U/mg |
| **Endotoxin** | **:** | Less than 0.2 EU/㎍ as determined by the LAL method |
| **Formulation** | **:** | 30mM sodium citrate-citric acid, 10% glycerol (pH 5.0) without preservative or carrier proteins. |
| **Stability** | **:** | Stable for up to 12 months at -70 ℃. Stable for a month at 4 ℃. |
| **Sterility** | **:** | Sterilized through a 0.2 ㎛ membrane filter and packaged aseptically. Culture for 2 weeks, no growth |
|  |  |  |