

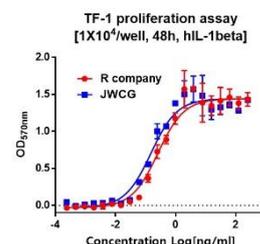
DATA SHEET

Product Information

Product Name	: Recombinant Human Interleukin-1 Beta (rhIL-1β)
Synonyms	: IL-1 beta, Catabolin, <i>IL1B</i>
Description	: Interleukin-1 beta (IL-1 β) known as catabolin, is a cytokine protein that in humans is encoded by the <i>IL1B</i> gene. IL-1 β precursor is cleaved by cytosolic caspase 1 (interleukin 1 beta convertase) to form mature IL-1 β . Interleukin 1 was discovered by Igal Gery in 1972. He named it lymphocyte-activating factor (LAF) because it was a lymphocyte mitogen. It was not until 1985 that interleukin 1 was discovered to consist of two distinct proteins, now called interleukin-1 alpha and interleukin-1 beta. IL-1 β is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. (Ref. From Wikipedia)
NCBI Accession No.	: NM_000576.2
Amino acid sequence	: MASMAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGDMEQQVVFSSMSFVQ GEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFV FNKIEINNKLFEFSAQFPNWIISTSAENMPVFLGGTKGGQDITDFTMQFV S
Molecular Mass	: 17.76 kDa (157 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: JW-H009-0010, JW-H009-0025, JW-H009-0050, JW-H009-0100, JW-H009-0250, JW-H009-0500, JW-H009-1000
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Monkey, Mouse, Rat, Rabbit, Pig, Sheep, Cow

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 98 % by RP-HPLC and SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method Determined by proliferation of TF-1 indicator cells
Biological Activity	: The ED50 is <14.0 pg/ml, corresponding to a specific activity of $> 7.14 \times 10^7$ U/mg
Endotoxin	: Less than 0.1 EU/ μ g as determined by the LAL method
Formulation	: 30 mM sodium citrate-citric acid, 5% glycerol (pH 4.5) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



Manufacturer : **JW CreaGene Inc.**
 FL2, Jungang induspia V, 138-6, Sangdaewon-dong, Jungwon-gu, Seongnam-si,
 Gyeonggi-do, South Korea (462-120)
 Tel: 82-31-737-3310, Fax: 82-31-737-3301