



Data Sheet: CellGro® / CellGenix™
Recombinant Human Interleukin 1 beta (IL-1β)
ex vivo grade - Order No.: 1011

Source	A DNA sequence encoding the mature IL-1β protein (March C.J. et al., 1985, Nature 315, 641-647; Auron, P.E. et al., 1984 PNAS 81:7907-7911) was expressed in <i>E. coli</i> .
Raw Material Statement	n.a.
Production	Produced on the basis of Good Manufacturing Practice (GMP)
Molecular Mass	The methionyl form of the <i>E. coli</i> expressed mature human IL-1β contains 153 amino acid residues and has a molecular mass of approximately 17 kDa.
Identity	Confirmed by DNA-sequencing of the expression plasmid in EOP-cells and N-terminal sequencing of the final product.
Purity	≥ 97%, as determined by SDS-PAGE (under reducing and non-reducing conditions) and visualized by Silver staining.
Endotoxin Level	< 0.1 ng per 1 μg (< 1000 EU/mg), as determined by LAL gel clot test according to Eur.Pharm.; typically < 0.01 ng per 1 μg (< 100 EU/mg).
Residual Host-Cell DNA	≤ 200 ng per 1 mg, as determined by a fluorimetric assay.
Activity	Measured in a cell proliferation assay using an IL-1β-sensitive cell line, RPMI 1788. (Vandenabeele P., et al., 1990, J Immunol Methods 135:25-32). ED50 is typically 2 – 10 pg/ml (5x10 ⁸ – 1x10 ⁸ IU/mg) calibrated with the 1 st International Standard NIBSC, # 86/680
Sterility	Sterility test according to Eur.Pharm. of the vialled product (direct inoculation).
Formulation	Lyophilized from a 250 μg/ml, 0.2μm-sterile-filtered solution in PBS without any carrier materials and preservatives.
Amount per Vial	50 ± 5 μg, as determined by spectrophotometrical measurement at 280 nm using PBS as reference (A ₂₈₀ = 0.67 for a concentration of 1 mg/ml IL-1β in PBS).
Transport	Ambient temperature
Storage at	-20°C to -80°C. Avoid repeated freeze-thaw cycles.
Shelf life	2 years from date of production Minimum 6 months from date of shipping
Intended Use	For research or clinical ex vivo cell culture use only. Not intended for human in vivo application.

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