

**Data Sheet: CellGro® / CellGenix™****GMP Recombinant Human Interleukin-1 beta (rh IL-1β)**

Order No.: 1011-050

<b>Source</b>	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>
<b>Molecular Mass</b>	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 17 kDa
<b>Identity</b>	Confirmed by DNA-sequencing of the expression plasmid in end of production (EOP)-cells and N-terminal sequencing of the final product
<b>Purity</b>	≥ 97%, as determined by SDS-PAGE (under reducing and non-reducing conditions) and visualized by Silver staining
<b>Endotoxin Level</b>	< 1000 EU/mg, as determined by LAL gel clot test according to Ph.Eur.; typically < 100 EU/mg
<b>Residual Host-Cell DNA</b>	≤ 200 ng/mg, as determined by a fluorimetric assay
<b>Activity</b>	1x10 <sup>8</sup> – 5x10 <sup>8</sup> IU/mg calibrated with the 1 <sup>st</sup> International Standard NIBSC, # 86/680  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)
<b>Sterility</b>	Sterility test according to Ph.Eur. of the vial product (direct inoculation)
<b>Formulation</b>	Lyophilized from a 250 µg/ml, 0.2µm sterile-filtered solution in PBS without any carrier materials and preservatives
<b>Amount per Vial</b>	50 ± 7.5 µg, as determined by spectrophotometrical measurement at 280 nm using PBS as reference (A <sub>280</sub> = 0.67 for a concentration of 1 mg/ml IL-1β in PBS)
<b>Transport</b>	Ambient temperature
<b>Storage at</b>	-20°C or below. Avoid repeated freeze-thaw cycles
<b>Shelf life</b>	Minimum 6 months from date of shipping
<b>Intended use</b>	<b>For clinical ex vivo use. Not intended for human in vivo application</b>
<b>Quality statement</b>	This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. No animal- or human-derived materials were used during manufacturing. USP chapter <1043> “ancillary materials for cell, gene, and tissue-engineered products” has been considered in the design of this product.

**Manufacturer**

CellGenix GmbH  
Am Flughafen 16 | 79108 Freiburg | Germany  
Tel.: +49 761 88889-0 | Fax: +49 761 88889-830  
www.cellgenix.com | info@cellgenix.com

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