Human IL-1 beta Recombinant Protein, PeproTech®

Product Details	
Size	100 µg
Species	Human
Published Species	Rabbit, Rat, Pig, Non-human primate, Bacteria, Bovine, Hamster, Sheep, Mouse, Human, Horse
Expression system	E. coli
Amino acid sequence	APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS
Molecular weight	17.3 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	The ED50 as determined by the dose-dependent stimulation of thymidine uptake by murine D10S cells is 1.0 pg/ml, corresponding to a specific activity of 1 x 10^9 units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	Assay-dependent	6 Publications
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	422 Publications
Miscellaneous PubMed (Misc)	-	39 Publications

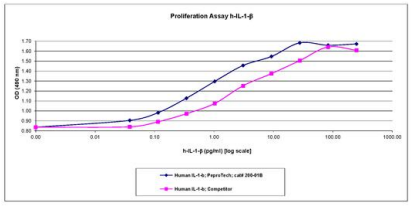
Product Specific Information

200-01B-1MG will be provided as 2 x 500 µg (200-01B-500UG).

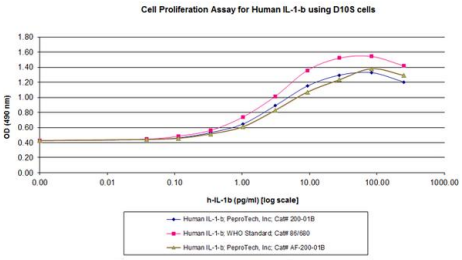
Recombinant Human IL-1beta is a 17.3 kDa protein containing 153 amino acid residues.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human IL-1 beta Recombinant Protein, PeproTech®



Human IL-1 beta Protein (200-01B-100UG) in Functional
Bioassay analysis of Human IL-1 beta Recombinant Protein, PeproTech® (Product # 200-01B-1MG).



Human IL-1 beta Protein (200-01B-100UG) in Functional
WHO Comparison of Human IL-1 beta Recombinant Protein, PeproTech® (Product # 200-01B-1MG).

468 References

Flow Cytometry (1)

PloS one

Aciculatin inhibits granulocyte colony-stimulating factor production by human interleukin 1-stimulated fibroblast-like synoviocytes.

Authors: Shih KS,Wang JH,Wu YW,Teng CM,Chen CC,Yang CR

Year
2013

Species
Human

ELISA (6)

Advanced science (Weinheim, Baden-Wurttemberg, Germany)

BEST1 Positive Monocytes in Circulation: Visualize Intratumoral Crosstalk between Cancer Cells and Monocytes.

"200-01B was used in Enzyme-linked immunosorbent assay to report that Bestrophin1 (BEST1), a component protein of Ca2+ -activated Cl- channels, is highly expressed on classical monocytes in the peripheral blood of Head and neck squamous cell carcinomas patients."

Authors: Zhang L,Wang Y,Yuan W,An C,Tan Q,Ma J

Year
2023

Species
Human

Frontiers in bioengineering and biotechnology

Immune Assisted Tissue Engineering via Incorporation of Macrophages in Cell-Laden Hydrogels Under Cytokine Stimulation.

"200-01B was used in Enzyme-linked immunosorbent assay to demonstrate that incorporation of macrophages in a resident macrophage function and their phenotype control have significant effects on the maturation and cytokine microenvironment of 3-D multiple cell type-laden hydrogels, which can be harnessed for better integration of implantable systems and for more physiologically relevant in vitro tissue models with an immune component."

Authors: Barthes J,Dollinger C,Muller CB,Liivas U,Dupret-Bories A,Knopf-Marques H,Vrana NE

Year
2020

View more ELISA references on thermofisher.cn

In vitro Assay (422)

Cell death & disease

Venetoclax triggers sublethal apoptotic signaling in venetoclax-resistant acute myeloid leukemia cells and induces vulnerability to PARP inhibition and azacitidine.

"200-01B was used in Cell Culture to identify a new vulnerability in acquired venetoclax-resistant AML cells and identify PARP inhibition as a potential therapeutic approach to overcome acquired venetoclax resistance in AML."

Authors: Tambe M,Unterberger S,Kriegbaum MC,Vänttinen I,Olgac EJ,Vähä-Koskela M,Kontro M,Wennerberg K, Heckman CA

Year
2024

Species
Human

View more IV references on thermofisher.cn

More applications with references on thermofisher.cn

Misc (39)