

Recombinant Human Interleukin-36B (rh IL-36B/IL1F8)

Synonyms: Interleukin 36 beta, interleukin 1 family member 8 (eta), Interleukin-1 homolog 2, Interleukin-1 Superfamily e, IL1H2, MGC126880, MGC126882.

Introduction: Human IL-36b belongs to the IL-1 family that includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36ra (IL1F5), IL-36b (IL1F8), IL-36g (IL1F9), IL-37 (IL1F7) and IL-38 (IL-1F10). The IL-1 family members display a 12 b-strand, b-trefoil configuration, and are thought to have ascended from a mutual ancestral gene. IL-36 beta is known to be actively secreted. Cells expressing IL-36 beta include resting and activated monocytes and B cells. The receptor for IL-36 beta is a blend of IL-1 Rrp2 and IL-1 RAcP. Recombinant IL-36 beta stimulates processes involving NF-kB and MAPK in an IL-1 Rrp2-dependent manner.

Description: IL36B Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17.7kDa. The IL36B is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 1x PBS, pH 7.4. The aliquotes of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IL-36B in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-36B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rh IL-36B should be stored at 4°C between 2-7days, for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid Sequence: MNPQREAAPK SYAIRDSRQM VVVLGNSLI AAPLSRSIKP VTLHLIACRD
TEFSDKEKGN MVYLGIKGKD LCLFCAEIQQ KPTLQLKEKN IMDLYVEKKA QKPFLFFHNK EGSTSVFQSV
SYPGWFIATS TTSGQPFLT KERGITNNTN FYLDSVE

Purity: Greater than 95.0% as determined by SDS-PAGE.

Biological Activity: Measured by its binding ability in a functional ELISA to bind recombinant human IL-1 Rrp2 Fc Chimera.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11349362
<i>medium</i>	10 µg	Cat.N°	11349363

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Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com