

Interleukin-37 Human Recombinant

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| Item Number | rAP-0480 |
| Synonyms | Interleukin-37, FIL1 zeta, IL-1X, Interleukin-1 family member 7, IL-1F7, Interleukin-1 homolog 4, IL-1H, IL-1H4, Interleukin-1 zeta, IL-1 zeta, Interleukin-1-related protein, IL-1RP1, Interleukin-23, IL-37, IL37, FIL1Z, IL1F7, IL1H4, IL1RP1, FIL1, FIL1(ZE) |
| Description | Interleukin-37 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 167 amino acids (Lys27-Asp192) and having a molecular mass of 18.6kDa. The IL37 is purified by proprietary chromatographic techniques. |
| Uniprot Accesion Number | Q9NZH6 |
| Amino Acid Sequence | MKNLNPKKFSIHDDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEGK- SPILLGVSKGEFCLYCDKDKGQSHPSLQLKEKLMKLAQKESARRPFIFYRAQVGWSNMLESAAHPGWFI CTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD. |
| Source | Escherichia Coli. |
| Physical Appearance and Stability | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IL37 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-37 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles. |
| Formulation and Purity | IL-37 was lyophilized after extensive dialysis against 20mM Phosphate buffer, pH7.4. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| Application | |
| Solubility | It is recommended to quick spin followed by reconstitution of IL37 in PBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions. |
| Biological Activity | As measured by its binding ability in a functional ELISA, immobilized IL1F7 at 1 µg/ml (100 µl/well) can bind rhIL-18 R/Fc Chimera with a linear range of 0.015-1µg/ml. |
| Shipping Format and Condition | Lyophilized powder at room temperature. |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**