

Product Data Sheet

Product Name: IL37 Human
 Cat. No.: GP20670
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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 zeta; Interleukin-1-related protein; IL-1RP1; Interleukin-23; IL-37; IL37; FIL1Z; IL1F7; IL1H4; IL1RP1; FIL1; FIL1(ZETA).		
Amino Acid Sequence	MKNLNPKKFSIHDQDHKVLVLDSGNLI AVDPKNIYRPEIFFALASSLSSASAEKGPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAQKESARRI		
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 further diluted to other aqueous solutions.		

Formulation IL37 was lyophilized from a 0.2µM filtered solution of 20mM PB, 150mM NaCl and 2mM DTT pH 7.4.

Introduction

Human interleukin family 1, member 7 (IL1F7) belongs to the interleukin 1 cytokine family. There are 5 alternatively spliced transcript variants encoding distinct isoforms with distinct expression profiles. The longest IL-1F7 transcript, named IL1F7b or IL1F7 isoform 1, encodes a 218 aa residues proprotein and containing a 45 aa propeptide which is cleaved to produce a mature protein. IL1F7b binds to IL18 Rb with low affinity however it doesn't exert any IL18 agonistic or antagonistic effects. IL1F7b also binds IL18BP (interleukin 18 binding protein), which is an inhibitory binding protein of interleukin 18 (IL18), and afterward forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL18.

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.

Stability

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA