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Datasheet for ABIN1096915 IL-37 Protein (AA 53-218)

Overview

Quantity:	50 µg
Target:	IL-37 (IL37)
Protein Characteristics:	AA 53-218
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Interleukin-37/IL-37
Sequence:	MKNLNPKKFS IHDQDHKVLV LDSGNLIAVP DKNYIRPEIF FALASSLSSA SAEKGSPILL GVSKGEFCLY CDKDKGQSHP SLQLKKEKLM KLAAQKESAR RPFIFYRAQV GSWNMLESAA HPGWFICTSC NCNEPVGVT D KFENRKHIEF SFQPVCKAEM SPSEVSD
Characteristics:	Recombinant Human Interleukin-37/IL-37 is produced with our E. coli expression system. The target protein is expressed with sequence (Lys27-Asp192) of Human IL-37.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IL-37 (IL37)
Alternative Name:	Interleukin-37/IL-37 (IL37 Products)

Target Details

Background:	<p>Human Interleukin family 1 Member 7 (IL1F7) is a member of the Interleukin 1 cytokine family. Five alternatively spliced transcript variants encoding distinct isoforms have been reported with distinct expression profiles. The longest IL1F7 transcript, referred to as IL1F7b or IL1F7 isoform 1, encodes a 218 amino acid residues proprotein containing a 45 amino acid propeptide, which is cleaved to generate mature protein. IL1F7b binds to IL18 Ralpha with low affinity but does not exert any IL18 agonistic or antagonistic effects. IL1F7b also binds interleukin 18 binding protein (IL-18BP), an inhibitory binding protein of interleukin 18 (IL-18), and subsequently forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL-18.</p> <p>Alternative Names: 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</p>
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Molecular Weight:	18.7 kDa
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UniProt:	Q9NZH6
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
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Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 2 mM DTT, pH 7.4.
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Preservative:	Dithiothreitol (DTT)
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Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
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Storage:	4 °C/-20 °C/-80 °C
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Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
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Handling

Expiry Date: 3 months