

Recombinant Murine Interleukin-36 Receptor Antagonist Protein (rMuIL-36RA)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

121-36G

Source:

Escherichia coli.

Molecular Weight:

Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 154 amino acids.

Quantity:

2μg/10μg/1000μg

AA Sequence:

VLSGALCFRM KDSALKVLYL HNNQLLAGGL HAEKVIKGEE ISVVPNRALD ASLSPVILGV

QGGSQCLSCG TEKGPILKLE PVNIMELYLG AKESKSFTFY RRDMGLTSSF ESAAYPGWFL

CTSPEADQPV RLTQIPEDPA WDAPITDFYF QQCD

Purity:

> 95 % by SDS-PAGE and HPLC analyses.

Biological Activity:

Measured by its ability to inhibit IL-36γ induced IL-6 production by human PBMCs.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Endotoxin: Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.

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Less than 1 EU/ μg of rMuIL-36RA as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and

stored at \leq -20 $\mathbb C$. Further dilutions should be made in appropriate buffered solutions.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

■ 12 months from date of receipt, -20 to -70 °C as supplied.

1 month. 2 to 8 °C under sterile conditions after reconstitution.

■ 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage:

ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Murine Interleukin-36 Receptor Antagonist Protein

Interleukin-36 receptor antagonist (IL-36RA) is a secreted protein which belongs to the interleukin 1 cytokine family (IL-1 family) and it is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes.IL-36RA has been reported to antagonize the biological activity of IL-36α (IL-1F6), IL-36β (IL-1F8), and IL-36γ (IL-1F9). Furthermore, it could constitute part of an independent signaling system analogous to interleukin-1 alpha (IL-1A), beta (IL-1B) receptor agonist and interleukin-1 receptor type I (IL-1R1). In addition, The receptor for IL-36RA has not been positively identified. Indirect evidence suggests it is IL-1Rrp2. Recombinant murine interleukin-36 RA contains 154 amino acid residues and it shares 91 % a.a. sequence identity with human IL-36RA.

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