

## Recombinant Human IL36RA / Interleukin-36 receptor antagonist, Animal Free & Carrier Free

Cat #: C-CYP207

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

### Product Overview

As a result of the interaction of IL-36 ligands with the IL-1Rrp2 receptor. Various activities including dendritic cell maturation and activation are induced. IL-36RA can antagonize the NF-κB signaling through binding to the IL-1Rrp2 receptor by either IL-36α, β or γ in a way of preventing the initiation of functional signaling.

### Product Information

**Source:** *Escherichia Coli*.

**Purity:** >98% as determined by SDS-PAGE. Ni-NTA chromatography.

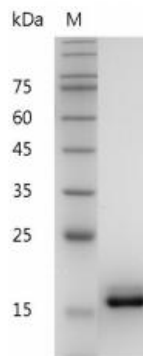
**Biological Activity:** Measure by its ability to inhibit IL-36 gamma-induced IL-8 secretion in PBMC cells. The ED<sub>50</sub> for this effect is < 2 ng/mL in the presence of 500 ng/mL of recombinant human IL-36 gamma.

**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Amino acid sequence:**

MVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAGKVIKGEESVVPNRWLDASLSPVILGVQGGSQCLSCGVGQEPTLTLEPVNIMELYLG  
AKESKSFTFYRRDMGLTSSFESAAYPGWFLCTVPEADQPVRTLQLPENGGWNAPITDFYFQQCD with polyhistidine tag at the C-terminus.

**Formulation:** Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.



SDS-PAGE analysis of recombinant human IL-36 RA

## Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H<sub>2</sub>O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

## Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

## Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.