YR0006

Leader in Biomolecular Solutions for Life Science

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Human IL-1β Monoclonal Antibody

Catalog No.: YR0006

Basic Information

Molecular Weight
150 kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SDS-PAGE

Background

Canakinumab is a recombinant human monoclonal antibody which binds to IL-1β (interleukin-1 beta). It' s mode of action is based on the neutralization of IL-1β signaling, resulting in suppression of inflammation in patients with disorders of autoimmune origin. In June 2009, the FDA approved canakinumab for the treatment of cryopyrin-associated periodic syndromes (CAPS), a spectrum of autoinflammatory syndromes. In September 2016, the FDA approved it' s use for three additional rare and serious auto-inflammatory diseases: tumor necrosis factor receptor associated periodic syndrome (TRAPS),hyperimmunoglobulin D syndrome (HIDS)/mevalonate kinase deficiency (MKD), and familial Mediterranean fever (FMF). In June 2020, canakinumab was FDA-approved for the indication to treat active Still's disease, including adult-onset Still's disease (AOSD).

Reported Applications

ELISA,neutralization,functional assays such as bioanalytical PK and ADA assays,and those assays for studying biological pathways

Immunogen Information

Clone
Canakinumab Biosimilar

Isotype
Human IgG1 kappa

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS pH 7.3

Contact

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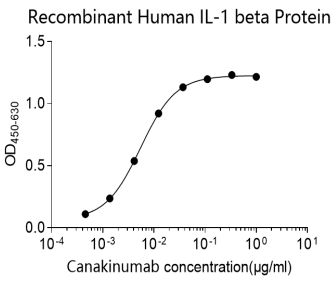
Product Information

Production
Purified from cell culture supernatant in an animal-free facility

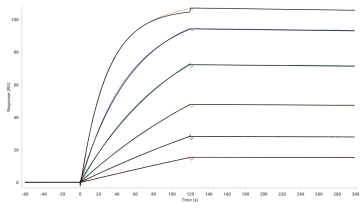
Purification
Protein A or G purification

Storage
Store at -20℃

Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human IL-1β (Research Grade Canakinumab Biosimilar) Monoclonal Antibody to IL-1β. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Human IL-1β SPR assay. Determined through SPR assay, the Human Anti-Human IL-1β (Research Grade Canakinumab Biosimilar) Monoclonal Antibody is capable of binding to Human IL-1β with an affinity constant of 0.1067 nM.