

## Anti-IFNAR1 Antibody

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature  
Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Anti-IFNAR1 Antibody (Anifrolumab) is a humanized IgG1 kappa monoclonal antibody targeting the type I interferon receptor subunit 1 (IFNAR1). This product specifically binds to IFNAR1, blocking the interaction of all type I interferons (including all subtypes of IFN-alpha, IFN-beta, and IFN-omega) with the receptor complex. This inhibition blocks the activation of the downstream JAK/STAT signaling pathway, reduces the expression of interferon-stimulated genes (ISGs), and suppresses type I interferon-mediated immune responses.
Targets(IC50)	IFNAR
In vitro	Anti-IFNAR1 Antibody potently inhibits type I IFN signaling. In human PBMCs and various cell lines, it dose-dependently suppresses IFN- $\alpha$ -induced phosphorylation of STAT1, STAT3, and STAT5. It effectively blocks the expression of diverse interferon-stimulated genes (ISGs), thereby neutralizing the biological effects of elevated type I IFN levels [1].
In vivo	In IFN- $\alpha$ -accelerated SLE mice or cynomolgus monkeys, systemic Anti-IFNAR1 Antibody leads to a significant and sustained reduction in interferon signatures (ISG expression) in blood and skin. This treatment modulates myeloid and lymphoid cell activation, slowing disease progression and reducing organ damage in autoimmune models [1].

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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