

Anifrolumab

Chemical Properties

CAS No. :	1326232-46-5
Formula:	
Molecular Weight:	144.92 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Anifrolumab(MEDI-546) is a potent type I interferon (IFN) receptor antagonist, a human monoclonal antibody that targets IFN. Anifrolumab inhibits the activity of type I interferon and is used for the prevention and treatment of systemic lupus erythematosus (SLE).
Targets(IC50)	IFNAR
In vitro	Anifrolumab induces sustained reduction of surface IFNAR1 and abrogates STAT1 phosphorylation at a concentration of 67.7nM for 20 minutes[1]. Anifrolumab suppresses the differentiation of B cells into plasma cells at concentrations of 1 and 10 µg/mL for 6 or 7 days[1]. Anifrolumab inhibits type I IFN-induced ISRE signaling, with IC50s ranging from 0.004 to 0.3nM for the IFN-α subtypes, and 0.03nM and 0.07nM for IFN-β and IFN-ω, respectively [1]. At a concentration of 67.7nM, Anifrolumab dose-dependently inhibits IFN-α production from pDCs in response to CpG-A or DNA-IC stimulation, inhibiting 87-95% of IFN-α production[1].

Solubility Information

Solubility	DMSO: 60 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0345 mL	0.069 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0035 mL	0.0069 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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