

## Alomfilimab

## Chemical Properties

CAS No. : 2489390-15-8

Formula:

Molecular Weight: 146.5 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Alomfilimab (KY-1044) is a humanized monoclonal antibody targeting the inducible co-stimulator receptor (ICOS). As a selective ICOS blockade, it manipulates ICOS expression heterogeneity on T-cell subtypes. It can be used to study tumors.
Targets(IC50)	Others, Immunology/Inflammation related
In vitro	Alomfilimab is a whole-human IgG1 antibody against inducible costimulatory receptors (ICOS). Alomfilimab binds ICOS of different species (human, crab-eating monkey, rat, and mouse) with similar affinity ( $aKd < 3$ nmol/L). Alomfilimab significantly induced luciferase signal (EC50 was 0.15 nmol/L). Similar EC50 was obtained for mouse ICOS (0.53 nmol/L), rat ICOS (0.48 nmol/L) or cynomophage monkey ICOS (0.22 nmol/L). [1]
In vivo	Alomfilimab (10 mg/kg; Intraperitoneal injection; Twice a week; Lasting 3 weeks) mIgG2a monotherapy blocks tumor growth in lymphoma/myeloma tumor models. Alomfilimab mIgG2a preferently depleted ICOS-high Treg cells and improved the ratio of CD8+ TEff to Treg cells in TME. Pharmacodynamic effects of Alomfilimab hIgG1 in NHP with weekly repeated intravenous doses of 0, 10, 30, and 100 mg/kg for 4 weeks (5 doses). Exposure and full occupancy of ICOS on circulating CD4+ T cells remained unchanged at all doses. [1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0341 mL	0.0683 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

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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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