

## Nemvaleukin alfa

## Chemical Properties

CAS No. : 2315268-27-8

Formula:

Molecular Weight: 34.41 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Nemvaleukin alfa (ALKS 4230) is an interleukin 2 fusion protein, a selective agonist of the medium-affinity IL-2 receptor, produced by fusion of the IL-2Ralpha subunit of the circularly arranged interleukin-2 (IL-2) and IL-2 receptor (IL-2R) complexes, which drives antitumor Immunity and inhibits tumor growth in small cell lung cancer.
Targets(IC50)	Interleukin
In vitro	Nemvaleukin alfa was able to activate lymphocyte subpopulations in cynomolgus monkeys and human samples with EC50 values ranging from 0.45 to 2.2 nM. Nemvaleukin alfa induced the activation of medium-affinity IL-2R on human cells (HH cells) after treatment for 30 minutes at concentrations ranging from 0-100 nM. Under the same conditions, Nemvaleukin alfa was also able to induce the expression of pSTAT5 in NK cells with an EC50 value of 0.45 nM. In addition, Nemvaleukin alfa was able to induce the activation of effector lymphocytes isolated from human peripheral blood when treated at a concentration of 0.5 nM for 5 days. [2][3]
In vivo	In a mouse model, Nemvaleukin alfa significantly inhibited small cell lung cancer (SCLC) tumor growth when administered subcutaneously at a dose of 6 mg/kg every 4 days.[1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0291 mL	0.1453 mL	0.2906 mL
5 mM	0.0058 mL	0.0291 mL	0.0581 mL
10 mM	0.0029 mL	0.0145 mL	0.0291 mL
50 mM	0.0006 mL	0.0029 mL	0.0058 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.

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