

## Inbakicept

## Chemical Properties

CAS No. : 2135939-52-3

Formula:

Molecular Weight: 66.58 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Inbakicept is a dimer of IL-15 receptor alpha sushi domain and immunoglobulin G1 (human Fc fragment) fusion protein, which is an IL-15 super agonist protein complex. Inbakicept binds to IL-15 antibody Nogapendekin alfa to form the complex Nogapendekin alfa inbakicept (ALT-803) in a 1:2 ratio. ALT-803 has potential anticancer and anti-tumor activities, which can be used to study breast cancer.
Targets(IC50)	Others, Interleukin
In vitro	<p><b>b&gt;METHODS:</b> Human NK cells were treated with inbakicept (0.01-1 nM; 20 hours) to study its effects on the cytotoxicity of the MHC class I low, NK cell-sensitive target K562. Effector cells were washed and the effects of short-term stimulation with Inbakicept on key effector proteins mediating NK cell killing were studied.</p> <p><b>RESULTS:</b> Inbakicept enhanced human NK cell killing in a dose-dependent manner; in addition, inbakicept induced a dose-dependent increase in the expression of perforin and granzyme B in CD56dim human NK cells. [1]</p>
In vivo	<p><b>b&gt;METHODS:</b> SCID mice were treated with inbakicept (0.2 mg/kg; intravenous injection; twice a week for 2 weeks) alone or in combination with rituximab to examine the effect of inbakicept administration on the in vivo elimination of human lymphoma cells by mouse NK cell anti-CD20-mAb.</p> <p><b>RESULTS:</b> The survival rate of SCID mice treated with inbakicept combined with rituximab was significantly improved, indicating that it can enhance the protective effect of rituximab against lethal Daudi lymphoma challenge. [1]</p>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.015 mL	0.0751 mL	0.1502 mL
5 mM	0.003 mL	0.015 mL	0.030 mL
10 mM	0.0015 mL	0.0075 mL	0.015 mL
50 mM	0.0003 mL	0.0015 mL	0.003 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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