

## Simlukafusp alfa

## Chemical Properties

CAS No. : 1776942-10-9

Formula:

Molecular Weight: 159.66 kDa

Store at low temperature

Storage: -20°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Simlukafusp alfa (FAP-IL2v) is a tumor-targeting immune cytokine, a human IgG1 antibody, with antitumor activity and immunostimulatory properties that potentiate in vitro and in vivo activity of therapeutic antibodies mediating antibody-dependent or T-cell-independent cytotoxicity (TDCC) and programmed death ligand 1 (PD-L1) checkpoint inhibition.
Targets(IC50)	Interleukin
In vitro	The binding constants of Simlukafusp alfa to IL-2R $\beta\gamma$ and FAP receptors of different species were as follows: huIL-2R $\beta\gamma$ : 43 pM; cyIL-2R $\beta\gamma$ : 80 pM; muIL-2R $\beta\gamma$ : 660 pM; huFAP: 0.3 nM; cyFAP: 0.23 nM; muFAP: 0.5 nM. In in vitro experiments, Simlukafusp alfa (0-100 nM; 5 days of treatment) was able to activate CD4+ and CD8+ T cells as well as NK cells, but did not preferentially activate Tregs. furthermore, Simlukafusp alfa (0-100 nM) potentiated Cetuximab-mediated antibody-dependent cellular cytotoxicity in vitro (ADCC) and Cibisatamab-mediated T cell-dependent cytotoxicity (TDCC). [1]
In vivo	In a mouse model of human cancer, Simlukafusp alfa administered intravenously at a dose of 1 mg/kg once a week for 4 weeks demonstrated significant efficacy when combined with therapeutic antibodies. [1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0063 mL	0.0313 mL	0.0626 mL
5 mM	0.0013 mL	0.0063 mL	0.0125 mL
10 mM	0.0006 mL	0.0031 mL	0.0063 mL
50 mM	0.0001 mL	0.0006 mL	0.0013 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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