

## Datopotamab deruxtecan

## Chemical Properties

CAS No. : 2238831-60-0

Formula:

Molecular Weight: 145.16 kDa

Datopotamab deruxtecan

Storage: Store at low temperature

Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Datopotamab deruxtecan (DS-1062) is a trophoblast cell surface antigen 2 (TROP2)-targeted antibody-drug conjugate (ADC) with antitumor activity. Datopotamab deruxtecan induces significant antibody-dependent cellular cytotoxicity in the presence of peripheral blood lymphocytes and inhibits tumor growth in xenograft models.
Targets(IC50)	Antibody-Drug Conjugates (ADCs),TROP2,Topoisomerase
In vitro	Datopotamab deruxtecan specifically binds to TROP2. 100 µg/mL Datopotamab deruxtecan is internalized into the tumor cell and reaches the lysosome via the intracellular transport pathway and releases Deruxtecan. In vitro experiments Datopotamab deruxtecan caused DNA damage and triggered apoptosis in tumor cells expressing TROP2. [1]
In vivo	Datopotamab deruxtecan exhibited significant antitumor activity in a variety of TROP2-expressing xenograft tumors, and 6 mg/kg Datopotamab deruxtecan treatment of a patient-derived xenograft (PDX) model of non-small-cell lung cancer (NSCLC) induced tumor regression. In addition, Datopotamab deruxtecan has an acceptable safety profile in rats and crab-eating monkeys. [1]

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0344 mL	0.0689 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 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.

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