

## Idactamab

## Chemical Properties

CAS No. :	2245205-37-0
Formula:	
Molecular Weight:	146.2 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Idactamab (INT-001) is a monoclonal antibody to the human amino acid transport protein ASCT2. Idactamab can be used to prepare ADC MEDI7247.
Targets(IC50)	Others,ASCT
In vitro	Idactamab exhibits inhibitory effects on various hematologic cancer cell lines, with an IC50 ranging from 0.05 to 65 ng/mL [2]. ASCT2 (SLC1A5) is a multi-channel, Na <sup>+</sup> -dependent neutral amino acid transporter that mediates the uptake of amino acids required for tumor growth and progression [2].
In vivo	Idactamab enhances the survival rates of three disseminated acute myeloid leukemia (AML) cell line models: TF1 $\alpha$ (high expression of ASCT2), MOLM-13 (low expression of ASCT2), and M.V.411 (high expression of ASCT2). The corresponding minimum inhibitory concentrations are 0.05 mg/kg, 0.1 mg/kg, and 0.1 mg/kg, respectively [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0342 mL	0.0684 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

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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