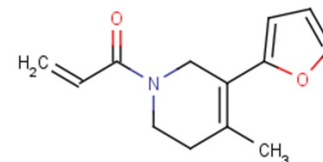


## Data Sheet (Cat.No.T15217)

EN40

### Chemical Properties

CAS No.:	2094547-67-6
Formula:	C <sub>13</sub> H <sub>15</sub> NO <sub>2</sub>
Molecular Weight:	217.26
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	EN40, as a covalent ligand, is a selective inhibitor of aldehyde dehydrogenase 3A1 (IC <sub>50</sub> : 2 μM).
Targets(IC <sub>50</sub> )	ALDH3A1: 2 μM
In vitro	EN40 (10-1000 μM; 48 hours) displays an inhibitory effect on ALDH3A1 activity. It also impairs A549 cell survival.
In vivo	EN40 (i.p.; 50mg/kg; from 14 days; once per day) displays strong anti-tumorigenic effects in established A549 tumor xenografts and it also shows good tolerability with no bodyweight loss in mice.

### Solubility Information

Solubility	DMSO: 5 mg/mL (23.01 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.603 mL	23.014 mL	46.028 mL
5 mM	0.921 mL	4.603 mL	9.206 mL
10 mM	0.46 mL	2.301 mL	4.603 mL
50 mM	0.092 mL	0.46 mL	0.921 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Counihan JL, et al. Chemoproteomics-Enabled Covalent Ligand Screening Reveals ALDH3A1 as a Lung Cancer Therapy Target. ACS Chem Biol. 2018 Aug 17;13(8):1970-1977

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