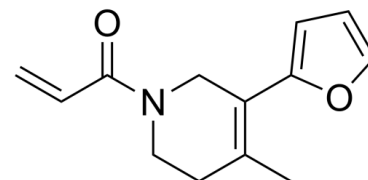


## Data Sheet

<b>Product Name:</b>	EN40
<b>Cat. No.:</b>	CS-0087195
<b>CAS No.:</b>	2094547-67-6
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>15</sub> NO <sub>2</sub>
<b>Molecular Weight:</b>	217.26
<b>Target:</b>	Aldehyde Dehydrogenase (ALDH)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : 5 mg/mL (23.01 mM; Need ultrasonic); Ethanol : 2 mg/mL (9.21 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

EN40 is a potent, selective **aldehyde dehydrogenase 3A1 (ALDH3A1)** inhibitor as a covalent ligand, exhibits an **IC<sub>50</sub>** value of 2  $\mu$ M [1] IC<sub>50</sub> & Target: IC<sub>50</sub>: 2  $\mu$ M (ALDH3A1)[1] *In Vitro*: EN40 (10-1000  $\mu$ M; 48 hours) shows inhibitory effect on ALDH3A1 activity and impairs A549 cell survival[1].

*In Vivo*: EN40 (intraperitoneal injection; 50mg/kg; from 14 days; once per day) exerts strong anti-tumorigenic effects in established A549 tumor xenografts, shows good tolerability with no body weight loss in mice[1].

### References:

[1]. Coughlin 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

### CAIndexNames:

2-Propen-1-one, 1-[3-(2-furanyl)-5,6-dihydro-4-methyl-1(2H)-pyridinyl]-

### SMILES:

C=CC(N1CCC(C)=C(C2=CC=CO2)C1)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA