

---

**Product Data Sheet**

---

Product Name: EN40  
Cat. No.: GC38909

**Chemical Properties**

Cas. No. 2094547-67-6

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

Formula  $C_{13}H_{15}NO_2$  M.Wt 217.26

Solubility DMSO: 5 mg/mL (23.01 mM); Ethanol: 2 mg/mL (9.21 mM) Storage Store at -20°C, unstable in solution, ready to use.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

**Background**

EN40 is a potent, selective aldehyde dehydrogenase 3A1 (ALDH3A1) inhibitor as a covalent ligand, exhibits an IC<sub>50</sub> value of 2 μM[1]

EN40 (10-1000 μM; 48 hours) shows inhibitory effect on ALDH3A1 activity and impairs A549 cell survival[1]. Cell Viability Assay[1] Cell Line: A549 cells

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]. Animal Model: SCID mice with A549 cells[1]

[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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA