

Product Name : ALDH3A1 inhibitor EN40

Synonyms : EN40; EN 40; EN40

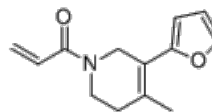
Cat No. : M13291

CAS Number : 2094547-67-6

Molecular Formula : C₁₃H₁₅NO₂

Formula Weight : 217.27

Chemical Name : 1-(5-(furan-2-yl)-4-methyl-3,6-dihydropyridin-1(2H)-yl)prop-2-en-1-one



Description : ALDH3A1 inhibitor EN40 is a potent and selective, covalent, in vivo-active inhibitor of ALDH3A1 with IC₅₀ of 2 uM, demonstrates no activity against ALDH1A3 and ALDH6A1 at 30 uM; also does not show any observable competition against lysine-reactive probe labeling of A549 proteomes; specifically inhibits the lung cancer cell lines expressing ALDH3A1, but not in the cell lines that do not express ALDH3A1, inhibits ALDH3A1 activity and impairs lung cancer pathogenicity in vivo.

Pathway : Metabolic Enzyme/Protease

Target : ALDH

Receptor : ALDH

Solubility : —

SMILES : C=CC(N1CC(C2=CC=CO2)=C(C)CC1)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Counihan JL, et al. ACS Chem Biol. 2018 Jul 13. doi: 10.1021/acscchembio.8b00381.