Product Data Sheet

Product Name: KS106
Cat. No.: GC68009

Chemical Properties

Cas. No.	2408477-50-7		
Formula	$C_{18}H_{15}BrF_3N_3O_2S$	M.Wt	474.29
Solubility		Storage	4°C, away from moisture and light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	KS106		

Background

KS106 is a potent **ALDH** inhibitor with **IC_{50}**s of 334, 2137, 360 nM for ALDH1A1, ALDH2, and ALDH3A1, respectively. KS106 shows antiproliferative and anticancer effects with low low toxic.KS106 significantly increases ROS activity, lipid peroxidation and toxic aldehyde accumulation. KS106 induces **Apoptosis** and cell cycle arrest at the G2/M phase[1].

KS106 (compound 3h) (0-100 μM; 72 h) shows anti-proliferative activity with IC_{50}s of 5.7, 5.7, 5.7, 4.9, 1.5, 2.6, 1.6, 1.7, 2.2, 20.7 μM for UACC 903, 1205 Lu, HCT116, HT29, NCIH929, U266, RPMI8226, MM.1R, MM.1S, FF2441 cells, respectively[1].
KS106 (5 μM, 24 h) induces apoptosis and cell cycle arrest at the G2/M phase[1].

Apoptosis Analysis[1]

Cell Line:	HCT116, HT29 cells
Concentration:	5 μM

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Incubation Time:	24 h
Result:	Induced cell apoptosis.

Cell Cycle Analysis[1]

Cell Line:	HCT116 cells
Concentration:	5 μM
Incubation Time:	24 h
Result:	Induced cell cycle arrest at G2/M phase.

[1]. Dinavahi SS, et al. Design, synthesis characterization and biological evaluation of novel multi-isoform ALDH inhibitors as potential anticancer agents. Eur J Med Chem. 2020 Feb 1;187:111962.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA