
Product Data Sheet

Product Name: ALDH1A3-IN-1

Cat. No.: GC68464

Chemical Properties

Cas. No. 1695970-90-1

Formula $C_{13}H_{18}BrNO$ M.Wt 284.19

Solubility Storage 4°C, protect from light

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**

ALDH1A3-IN-1 (Compound 14) is a potent **ALDH1A3** inhibitor, with an **IC₅₀** of 0.63 μM and a **K_i** of 0.46 μM. ALDH1A3-IN-1 can be studied in **prostate cancer**^[1].

ALDH1A3-IN-1 (Compound 14) (0-200 μM, 96 h) shows antiproliferative activity in prostate cancer cell lines^[1].

ALDH1A3-IN-1 (0-200 μM, 72 h) reduces cell viability of primary prostate cells in a dose-dependent manner^[1].

Cell Proliferation Assay^[1]

Cell Line: PC3, LNCaP, and DU145 cells

Concentration: 12.5-200 μM

Incubation Time: 96 h

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

Product Data Sheet

Result: Showed antiproliferative activity with IC₅₀ values of 47 ± 6, 25 ± 1, and 61 ± 5 μM against PC3, LNCaP, and DU145 cells.

Cell Viability Assay^[1]

Cell Line: Primary cells cultured at early passage from human prostate tissue biopsies

Concentration: 50 and 200 μM

Incubation Time: 72 h

Result: Resulted a dose-dependent reduction in percentage cell viability of primary prostate epithelial cultures.

[1]. Ali I M Ibrahim, et al. Expansion of the 4-(Diethylamino)benzaldehyde Scaffold to Explore the Impact on Aldehyde Dehydrogenase Activity and Antiproliferative Activity in Prostate Cancer. J Med Chem. 2022 Mar 10;65(5):3833-3848.

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