
Product Data Sheet

Product Name: A-893
Cat. No.: GC30503

Chemical Properties

Cas. No. 1868232-32-9

SMILES O=C(CCNCCC1=CC(Cl)=C(Cl)C=C1)N(C2CCCCC2)CCNC[C@H](O)C3=CC=CC(N4)=C3OCC4=O

Formula C₂₉H₃₈Cl₂N₄O₄ M.Wt 577.54

Solubility Soluble in DMSO Storage Store at -20°C

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

Protocol**Cell experiment:**

Human A549 lung carcinoma cells are chosen due to their high SMYD2 expression levels and wild-type p53 status. After 18 h of treatment with 10 μM of compound (e.g. A-893), changes in p53K370me1 are measured along with changes to overall p53 levels[1].

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

References:

[1]. Sweis RF, et al. Discovery of A-893, A New Cell-Active Benzoxazinone Inhibitor of Lysine Methyltransferase SMYD2. ACS Med Chem Lett. 2015 Apr 29;6(6):695-700.

Background

A-893 is a cell-active inhibitor of Methyltransferase SMYD2, with an IC₅₀ of 2.8 nM.

The ratio of p53K370me1 to overall p53 levels is reduced, as expected, by treatment with either A-893 or AZ505. While this unexpectedly depicts a more robust response with AZ505, further dissection of the data provides clarity into the origin of this. While overall p53 levels are unaffected by A-893, a surprising >3-fold increase is observed with AZ505. Analysis of p53K370me1 levels reveals that inhibitor A-893 exhibited 42% reduction in the methyl mark, while AZ-505 is slightly less effective at 28% reduction[1].

[1]. Sweis RF, et al. Discovery of A-893, A New Cell-Active Benzoxazinone Inhibitor of Lysine Methyltransferase SMYD2. ACS Med Chem Lett. 2015 Apr 29;6(6):695-700.

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