
Product Data Sheet

Product Name: YW3-56
Cat. No.: GC33261

Chemical Properties

Cas. No. 1374311-17-7

SMILES O=C(C1=CC=C2C=C(N(C)C)C=CC2=C1)N[C@H](C(NCC3=CC=CC=C3)=O)CCCN(CCl)=N

Formula C₂₇H₃₂ClN₅O₂ M.Wt 494.03

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

Background

YW3-56 is a potent peptidylarginine deiminase (PAD) inhibitor, with an IC₅₀ of 1-5 μM for PAD4.

Compared with Cl-amidine, YW3-56 shows >60-fold increase in cell growth inhibition efficacy (IC₅₀ about 2.5 μM) but only 5-fold increase in PAD4 inhibition (IC_{sub}>50 about 1-5 μM). At 2-4 μM concentrations, YW3-56 displays mainly cytostatic effects by slowing cell division, whereas at higher concentrations, it exerts cytotoxic effects by altering cell morphology and killing cells[1].

[1]. Wang Y, et al. Anticancer peptidylarginine deiminase (PAD) inhibitors regulate the autophagy flux and the mammalian target of rapamycin complex 1 activity. J Biol Chem. 2012 Jul 27;287(31):25941-53.

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