

Product Data Sheet

Product Name: VPC-18005

Cat. No.: GC65187

Chemical Properties

Cas. No. 2242480-48-2

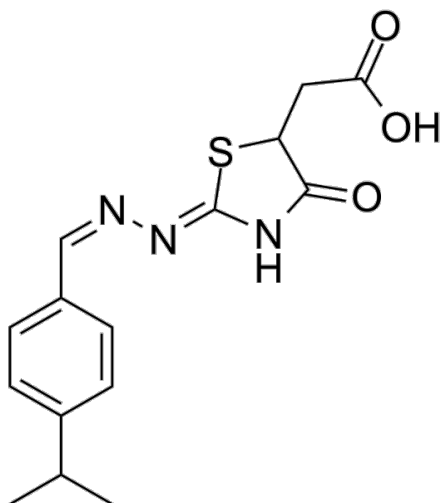
Formula C₁₅H₁₇N₃O₃S M.Wt 319.38

Solubility DMSO : 62.5 mg/mL (195.69 mM; Storage 4°C, protect from light
Need ultrasonic)

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

VPC-18005 inhibits ERG-induced transcription and interacts directly with the ERG-ETS domain, and disrupts the ERG binding to DNA. VPC-18005 is a potent inhibitor of luciferase activity[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

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VPC-18005 is found to inhibit pETS-luc reporter activity in PNT1B-ERG and VCaP cells with IC₅₀ values of 3 and 6 μ M, respectively[1].VPC-18005 could suppress ERG reporter activity without exhibiting overt cytotoxicity[1].VPC-18005 inhibits migration and invasion of ERG-overexpressing cells in vitro[1].VPC-18005 can antagonize the metastatic potential of ERG-expressing prostate cells[1].The exposure of larvae to 1 or 10 μ M of VPC-18005 produced a 20-30% decrease in the dissemination of cancer cells in zebrafish[2].

[1]. Miriam S Butler, et al. Discovery and characterization of small molecules targeting the DNA-binding ETS domain of ERG in prostate cancer. *Oncotarget*. 2017 Jun 27;8(26):42438-42454.

[2]. Haneen Amawi, et al. The use of zebrafish model in prostate cancer therapeutic development and discovery. *Cancer Chemother Pharmacol*. 2021 Mar;87(3):311-325.

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