

Product Data Sheet

Product Name: PS432
Cat. No.: GC72880

Chemical Properties

Cas. No. 2083630-26-4

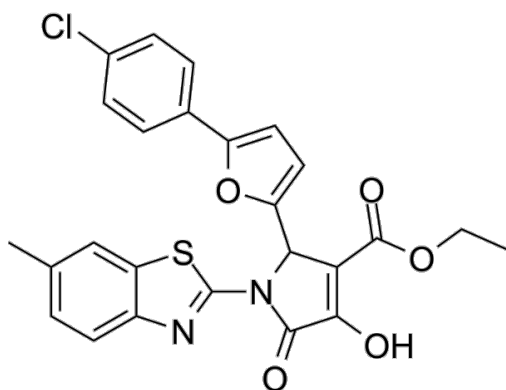
Formula $C_{25}H_{19}ClN_2O_5S$ M.Wt 494.95

Solubility DMSO : 100 mg/mL (202.04 mM; Storage -20°C
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

PS432 is a PKC inhibitor with IC₅₀s of 16.9 μM (PKC_α) and 18.5 μM (PKC_ζ), respectively. PS432 effectively inhibits the proliferation of non-small cell lung cancer cells (NSCLCs) and tumor growth in mouse xenograft models.

PS432 (25 μM; 24 h) inhibits cancer cells proliferation, with IC₅₀s of 30.7 μM (A549) and 12.4 μM

Caution: Product has not been fully validated for medical applications. For research use only.

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(A427) in semi solid agar medium, for example[1]. PS432 (50 μ M; 12, 24, and 36 h) arrests cell cycle at G0/G1 phase in A549 lung cancer cells[1].

PS432 (2.5 mg/kg; i.p.; once daily for 14 d) inhibits tumor growth in xenograft model of lung cancer[1].

References:

[1]. Arencibia JM, et al. An Allosteric Inhibitor Scaffold Targeting the PIF-Pocket of Atypical Protein Kinase C Isoforms. ACS Chem Biol. 2017 Feb 17;12(2):564-573.

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