
Product Data Sheet

Product Name: CID 2011756

Cat. No.: GC15718

Chemical Properties

Cas. No. 638156-11-3

Chemical Name 5-(3-chlorophenyl)-N-[4-(morpholin-4-ylmethyl)phenyl]furan-2-carboxamide

SMILES C1COCCN1CC2=CC=C(C=C2)NC(=O)C3=CC=C(O3)C4=CC(=CC=C4)ClFormula $C_{22}H_{21}ClN_2O_3$ M.Wt 396.87Solubility ≥ 39.7 mg/mL in DMSO with gentle warming, ≥ 2.34 mg/mL in EtOH with ultrasonic and warming Storage Store at RT

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**

CID-2011756 is a novel and potent inhibitor of protein kinase D1 (PKD1), one of three PKD isoforms of a novel family of serine/threonine kinases involved in cell proliferation, survival, invasion and protein transport, with a value of 50% inhibition concentration IC_{50} of 3.2 μ M in vitro. CID-2011756 also exhibits pan-PKD inhibitory effects that ATP-competitively inhibits PKD2 and PDK3 with values of IC_{50} of 0.6 μ M and 0.7 μ M respectively. Study results have shown that CID-2011756 is a cell active PKD1 inhibitor that concentration-dependently inhibits phorbol ester-induced endogenous PKD1 activation in LNCap prostate cancer cells with a value of half maximal effective concentration EC_{50} of 10 μ M.

Reference

[1]. Sharlow ER, Mustata Wilson G, Close D, Leimgruber S, Tandon M, Reed RB, Shun TY,

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

Wang QJ, Wipf P, Lazo JS. Discovery of diverse small molecule chemotypes with cell-based PKD1 inhibitory activity. PLoS One. 2011;6(10):e25134.

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