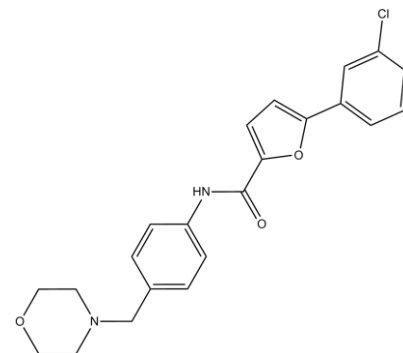


Product Data Sheet

Chemical Properties

Product Name:	CID 2011756
Cas No.:	638156-11-3
M.Wt:	396.87
Formula:	C ₂₂ H ₂₁ ClN ₂ O ₃



Chemical Name:	5-(3-chlorophenyl)-N-[4-(morpholin-4-ylmethyl)phenyl]furan-2-carboxamide
Canonical SMILES:	<chem>C1COCCN1CC=CC=C(C=C2)NC(=O)C3=CC=C(O3)C4=CC(=CC=C4)Cl</chem>
Solubility:	>39.7mg/ml in DMSO
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.
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request

Biological Activity

Targets :	Chromatin/Epigenetics
Pathways:	Protein Ser/Thr Phosphatases

Description:

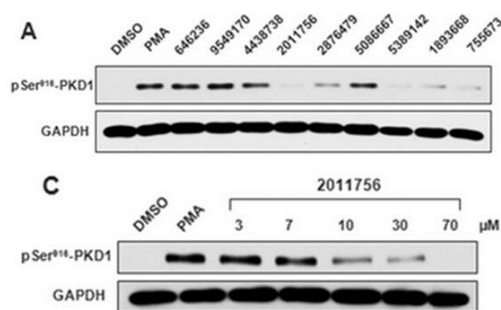
CID-2011756 is a novel and potent inhibitor of protein kinase D1 (PKD1), one of three PKD isoforms of a novel family of serine/threonine kinases involved in cell proliferation, survival, invasion and protein transport, with a value of 50% inhibition concentration IC₅₀ of 3.2 μM in vitro. CID-2011756 also exhibits pan-PKD inhibitory effects that ATP-competitively inhibits PKD2 and PDK3 with values of IC₅₀ of 0.6 μM and 0.7 μM 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 EC50 of 10 μ M.

Reference:

Sharlow ER, Mustata Wilson G, Close D, Leimgruber S, Tandon M, Reed RB, Shun TY, Wang QJ, Wipf P, Lazo JS. Discovery of diverse small molecule chemotypes with cell-based PKD1 inhibitory activity. *PLoS One*. 2011;6(10):e25134.

Product Validation



Treatment of CID2011756 inhibits PKD1 phosphorylation at Ser 916

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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