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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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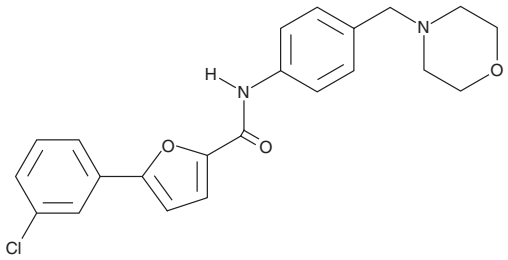
PRODUCT INFORMATION

CID-2011756

Item No. 15317

CAS Registry No.:	638156-11-3
Formal Name:	5-(3-chlorophenyl)-N-[4-(4-morpholinylmethyl)phenyl]-2-furancarboxamide
MF:	$C_{22}H_{21}ClN_2O_3$
FW:	396.9
Purity:	≥95%
UV/Vis.:	λ_{max}: 230, 315 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CID-2011756 is supplied as a crystalline solid. A stock solution may be made by dissolving the CID-2011756 in the solvent of choice. CID-2011756 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CID-2011756 in these solvents is approximately 0.1, 10, and 15 mg/ml, respectively.

CID-2011756 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CID-2011756 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CID-2011756 has a solubility of approximately 0.1 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Protein kinase D (PKD) is a serine/threonine protein kinase that is activated by diacylglycerol, commonly downstream of PKC signaling.[1] The three human PKD isoforms target a variety of proteins to alter cell proliferation, survival, invasion, and protein transport.[1,2] CID-2011756 is an inhibitor of all three PKD isoforms (IC_{50}s = 3.2, 0.6, and 0.7 µM for PKD1, PKD2, and PKD3, respectively).[2] This ATP-competitive inhibitor is cell permeable, blocking the phosphorylation of PKD1 on Ser^{916} (an autocatalytic target) in LNCaP prostate cancer cells in response to phorbol esters (EC_{50} = 10 µM).[2]

References

1. Rozengurt, E., Rey, O., and Waldron, R.T. Protein kinase D signaling. *J. Biol. Chem.* **280(14)**, 13205-13208 (2005).
2. Sharlow, E.R., Mustata Wilson, G., Close, D., *et al.* Discovery of diverse small molecule chemotypes with cell-based PKD1 inhibitory activity. *PLoS One* **6(10)**, e25134 (2011).

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