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Produktinformation



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Lieferung & Zahlungsart

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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: C₂₂H₂₁ClN₂O₃

FW: 396.9

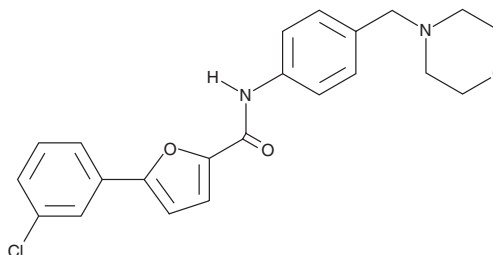
Purity: ≥95%

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 (IC₅₀s = 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 Ser⁹¹⁶ (an autocatalytic target) in LNCaP prostate cancer cells in response to phorbol esters (EC₅₀ = 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).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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