PKC-9, PKC-zeta inhibitor  
(RGNCY-0048)

Systematic Name:  
4-(3-(4-(4-methylpiperazin-1-yl)-1H-benzo[d]imidazol-2-yl)-1H-indazol-6-yl)aniline

Molecular Weight: 423.52

Molecular Formula: C25H25N7

SMILES:  
NC1=CC=C(C2=CC(NN=C3C4=NC5=C(N=C5N6CCN(C)CC6)N4)=C3C=C2)C=C1

Purity: 97.5%

Sulibility: DMSO, Hydrochloride

Pubmed Ref: 19097791

Description

PKC-9 is a 2-(6-phenyl-1H indazol-3-yl)-1H-benzo[d]imidazole derivative optimized to be a potent and selective inhibitor of protein kinase c-zeta (PKC-ζ; 5.18nM). The analog displays good selectivity over other PKC isoforms (α, βII, γ, δ, ε, μ, θ, η and ι/λ) and CDK-2, however it displays marginal selectivity against a panel of other kinases. The
inhibition of PKC-ζ is proposed to be a potential drug target for immune and inflammatory diseases.

References

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Analytical Data
LCMS REPORT

Compound ID: compound 9
Sample ID: EW4965-42-P1E2
Location: P1-F=01
Inj. Vol.: 1.0 uL
Acq. Method: D:\METHODS\WUXIAB10.M
Data Filename: D:\DATA\160628FG\EW4965-42-P1E2.D
Instrument: LCMS-F

Report

Signal 1: DAD1 E, Sig=220,8 Ref=off
# | Meas. Ret. | Height  | Width  | Area     | Area %
---|-----------|---------|--------|----------|--------
1 | 1.655     | 1209.342| 0.030  | 2269.391 | 100.000|

Signal 2: DAD1 D, Sig=254,8 Ref=off
# | Meas. Ret. | Height  | Width  | Area     | Area %
---|-----------|---------|--------|----------|--------
1 | 1.654     | 1692.882| 0.029  | 3133.165 | 100.000|

Operator:
Date:
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HPLC REPORT

Compound ID: compound 9
Sample ID: E4965-42-P1E1
Vial#: 66
Injection Volumn: 1
Filename: D:\data\016061\160627\E4965-42-P1E11dD.mcm
Method Name: D:\Method\6-0AB_4min.lcm
Instrument & Column: HPLC-D Kinetex EVO C18 4.6*50mm*5um
Run time: 6/27/2016 5:34:31 PM

Integration result

Peak Table

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Operator: ____________________
Date: ________________________
**HPLC REPORT**

**Compound ID:** compound 9  
**Sample ID:** EW4965-42-P1E1  
**Filename:** D:\data\2016\1606160627\EW4965-42-P1E1.lcd  
**Method Name:** D:\Method0-60AB_4min.lcm  
**Instrument & Column:** HPLC-D Kinetex EVO C18 4.6*50mm*5um  
**Run time:** 6/27/2016 5:34:31 PM

![HPLC chromatogram](image)

Integration result

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**Operator:**  
**Date:**

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PO Box 9242, South Yarra, VIC, 3141, Australia  +61(0)418570917  www.reagency.com
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HPLC REPORT

Compound ID: compound 9
Sample ID: EW4965-42-P1E1
Filename: D:\data\2016160661606627\1\EW4965-42-P1E1.1cd
Method Name: D:\Method0-60AB_4min.lcm
Instrument & Column: HPLC-D Kinetex EVO C18 4.6*50mm*5um
Run time: 6/27/2016 5:34:31 PM

Integration result

PeakTable

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Operator: _______________
Date: _______________