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Produktinformation

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- 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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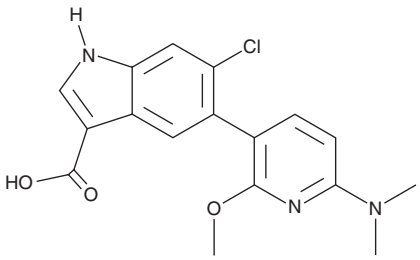
PRODUCT INFORMATION

PF-249

Item No. 38416

CAS Registry No.:	1467059-70-6
Formal Name:	6-chloro-5-[6-(dimethylamino)-2-methoxy-3-pyridinyl]-1H-indole-3-carboxylic acid
Synonym:	PF-06885249
MF:	$C_{17}H_{16}ClN_3O_3$
FW:	345.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 224, 255, 301 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PF-249 is supplied as a solid. A stock solution may be made by dissolving the PF-249 in the solvent of choice, which should be purged with an inert gas. PF-249 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of PF-249 in these solvents is approximately 5, 1, and 10 mg/ml, respectively.

Description

PF-249 is an allosteric activator of AMP-activated protein kinase β1 (AMPKβ1) heterotrimers (EC_{50}s = 8 and 6 nM for human AMPK α1β1γ1 and -α2β1γ1, respectively).[1,2] It is selective for AMPK α1β1γ1 and -α2β1γ1 over AMPK α1β2γ1, -α2β2γ1, and -α2β2γ3 at 40 µM and a panel of receptors, channels, and phosphodiesterases at 10 µM.[1,2] PF-249 decreases proteinuria and improves kidney function in an obese ZSF1 rat model of diabetic nephropathy in a dose-dependent manner.[1]

References

1. Salatto, C.T., Miller, R.A., Cameron, K.O., *et al.* Selective activation of AMPK β1-containing isoforms improves kidney function in a rat model of diabetic nephropathy. *J. Pharmacol. Exp. Ther.* **361(2)**, 303-311 (2017).
2. Ryder, T.F., Calabrese, M.F., Walker, G.S., *et al.* Acyl glucuronide metabolites of 6-chloro-5-[4-(1-hydroxycyclobutyl)phenyl]-1H-indole-3-carboxylic acid (PF-06409577) and related indole-3-carboxylic acid derivatives are direct activators of adenosine monophosphate-activated protein kinase (AMPK). *J. Med. Chem.* **61(16)**, 7273-7288 (2018).

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