

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION



PPQ-102

Item No. 16275

CAS Registry No.: 931706-15-9

6,7-dihydro-7,9-dimethyl-6-(5-methyl-2-furanyl)-Formal Name:

11-phenyl-pyrimido[4',5':3,4]pyrrolo[1,2-a]

quinoxaline-8,10(5H,9)-dione

Synonyms: CFTR Inhibitor IV, Cystic Fibrosis Transmembrane

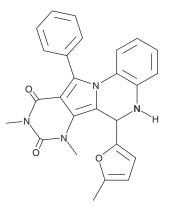
Conductance Regulator Inhibitor IV

MF: $C_{26}H_{22}N_4O_3$ 438.5 FW: **Purity:** ≥95%

 λ_{max} : 211, 329 nm UV/Vis.: Supplied as: A crystalline solid

Storage: -20°C Stability: ≥4 vears

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



Laboratory Procedures

PPQ-102 is supplied as a crystalline solid. A stock solution may be made by dissolving the PPQ-102 in the solvent of choice, which should be purged with an inert gas, PPQ-102 is soluble in dimethyl formamide at a concentration of approximately 0.2 mg/ml.

PPQ-102 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

The cystic fibrosis (CF) gene encodes a cAMP-regulated chloride channel, the CF transmembrane conductance regulator (CFTR). PPQ-102 is a cell-permeable pyrimido-pyrrolo-quinoxalinedione that reversibly inhibits CFTR chloride channels with an IC_{50} value of 90 nM.¹ At 0.5-5 μ M, PPQ-102 has been used to reduce the size and number of renal cysts in a neonatal kidney organ culture model of polycystic kidney disease. 1 At 1 μ M, PPQ-102 can increase vascular endothelial growth factor-A production in cultured airway epithelial NCI-H292 cells, triggering epidermal growth factor receptor phosphorylation.²

References

- 1. Tradtrantip, L., Sonawane, N.D., Namkung, W., et al. Nanomolar potency pyrimido-pyrrolo-quinoxalinedione CFTR inhibitor reduces cyst size in a polycystic kidney disease model. J. Med. Chem. 52(20), 6447-6455 (2009).
- 2. Martin, C., Coolen, N., Wu, Y., et al. CFTR dysfunction induces vascular endothelial growth factor synthesis in airway epithelium. Eur. Respir. J. 42, 1553-1562 (2013).

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

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.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM