



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION

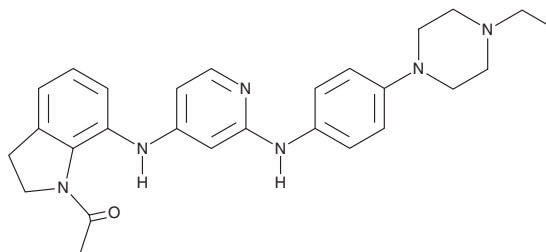


UCL-TRO-1938

Item No. 39118

CAS Registry No.: 2919575-27-0
Formal Name: 1-[7-[[2-[[4-(4-ethyl-1-piperazinyl)phenyl]amino]-4-pyridinyl]amino]-2,3-dihydro-1H-indol-1-yl]-ethanone

MF: C₂₇H₃₂N₆O
FW: 456.6
Purity: ≥98%
UV/Vis.: λ_{max}: 297 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥3 years



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

Laboratory Procedures

UCL-TRO-1938 is supplied as a solid. A stock solution may be made by dissolving the UCL-TRO-1938 in the solvent of choice, which should be purged with an inert gas. UCL-TRO-1938 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of UCL-TRO-1938 in these solvents is approximately 1 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of UCL-TRO-1938 can be prepared by directly dissolving the solid in aqueous buffers. UCL-TRO-1938 is slightly soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

UCL-TRO-1938 is an allosteric activator of PI3Kα.¹ It binds to PI3Kα in a surface plasmon resonance (SPR) assay (K_d = 36 μM) and induces PI3Kα activation in a cell-free assay when used at concentrations of 25 and 50 μM, an effect that can be reversed by the PI3Kα inhibitor BYL719 (Item No. 16986). UCL-TRO-1938 increases PtdIns-(3,4,5)-P₃ and phosphorylated Akt levels in mouse embryonic fibroblasts (MEFs; EC₅₀s = 5 and 2-4 μM, respectively). *Ex vivo*, UCL-TRO-1938 increases tissue survival and decreases infarct size in perfused rat hearts. *In vivo*, UCL-TRO-1938 (10 mg/kg) reduces infarct size in a mouse model of ischemia-reperfusion injury induced by left anterior descending (LAD) coronary artery occlusion. It also increases the number of motor neurons and innervation of neuromuscular junctions in a rat model of sciatic nerve crush injury.

Reference

1. Gong, G.Q., Bilanges, B., Allsop, B., *et al.* A small-molecule PI3Kα activator for cardioprotection and neuroregeneration. *Nature* **618(7963)**, 159-168 (2023).

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

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/19/2023

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