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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



GLX-351322

Item No. 31523

CAS Registry No.: 835598-94-2
Formal Name: 2-[[2-[4-(2-furanylcarbonyl)-1-piperazinyl]acetyl]amino]-5,6-dihydro-4H-cyclopenta[b]thiophene-3-carboxylic acid, ethyl ester

MF: C₂₁H₂₅N₃O₅S

FW: 431.5

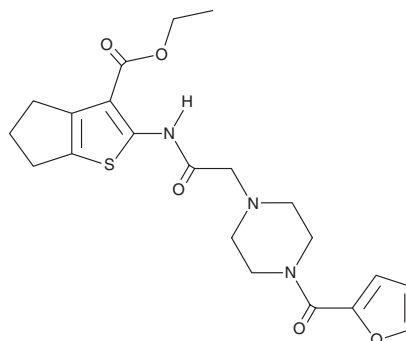
Purity: ≥98%

UV/Vis.: λ_{max}: 229, 253, 324 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥2 years



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

Laboratory Procedures

GLX-351322 is supplied as a crystalline solid. A stock solution may be made by dissolving the GLX-351322 in the solvent of choice, which should be purged with an inert gas. GLX-351322 is soluble in the organic solvent dimethyl formamide (DMF). GLX-351322 is soluble in DMF at a concentration of approximately 1 mg/ml. GLX-351322 is also slightly soluble in DMSO.

GLX-351322 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GLX-351322 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. GLX-351322 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

GLX-351322 is an inhibitor of NADPH oxidase 4 (NOX4; IC₅₀ = 5 μM).¹ It is selective for NOX4 over NOX2 (IC₅₀ = 40 μM). GLX-351322 (10 μM) reduces glucose-induced production of reactive oxygen species (ROS) and cytotoxicity in isolated human pancreatic islets. It decreases blood glucose levels in an intravenous glucose tolerance test in mice fed a high-fat diet when administered in the drinking water at an estimated dose of 3.8 mg/kg per day.

Reference

1. Anvari, E., Wikström, P., Walum, E., *et al.* The novel NADPH oxidase 4 inhibitor GLX351322 counteracts glucose intolerance in high-fat diet-treated C57BL/6 mice. *Free Radic. Res.* **49**(11), 1308-1318 (2015).

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.

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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