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Produktinformation

- Forschungsprodukte & Biochemikalien
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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

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

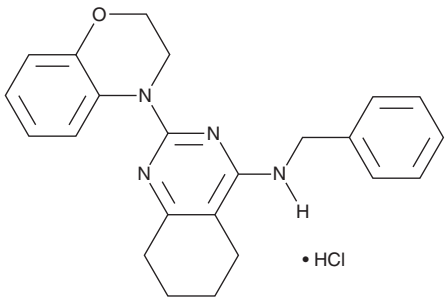
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

ML-241 (hydrochloride)

Item No. 40400

CAS Registry No.: 2070015-13-1
Formal Name: 2-(2,3-dihydro-4H-1,4-benzoxazin-4-yl)-5,6,7,8-tetrahydro-N-(phenylmethyl)-4-quinazolinamine, monohydrochloride
MF: $C_{23}H_{24}N_4O \bullet HCl$
FW: 408.9
Purity: ≥98%
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

ML-241 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the ML-241 (hydrochloride) in the solvent of choice. ML-241 (hydrochloride) is soluble in DMSO and slightly soluble in acetonitrile.

ML-241 (hydrochloride) 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

ML-241 is an ATP-competitive inhibitor of the ATPase p97 (IC_{50} = 0.11 µM) that is selective for the D2 domain of p97.[1,2] It disrupts the endoplasmic reticulum-associated degradation (ERAD) pathway, preventing the degradation of p97-dependent proteasome substrates in a reporter assay using HeLa cells (IC_{50} = 3.5 µM) and inducing the accumulation of ubiquitin conjugates in the nuclear plus membrane and cytosolic compartments of SW403 colon cancer cells when used at concentrations of 5 and 10 µM.[1] Unlike the p97 inhibitor ML-240, ML-241 does not induce autophagy or apoptosis in, or inhibit the proliferation of, HCT15 and SW403 cancer cells.

References

1. Chou, T.F., Li, K., Frankowski, K.J., *et al.* Structure-activity relationship study reveals ML240 and ML241 as potent and selective inhibitors of p97 ATPase. *ChemMedChem* **8(2)**, 297-312 (2013).
2. Chou, T.F., Bulfer, S.L., Weihl, C.C., *et al.* Specific inhibition of p97/VCP ATPase and kinetic analysis demonstrate interaction between D1 and D2 ATPase domains. *J. Mol. Biol.* **426(15)**, 2886-2899 (2014).

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