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

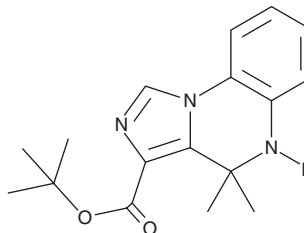
PRODUCT INFORMATION



U-93631

Item No. 26417

CAS Registry No.: 152273-12-6
Formal Name: 4,5-dihydro-4,4-dimethyl-imidazo[1,5-a]quinoxaline-3-carboxylic acid, 1,1-dimethylethyl ester
MF: C₁₇H₂₁N₃O₂
FW: 299.4
Purity: ≥98%
UV/Vis.: λ_{max}: 222, 325 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

U-93631 is supplied as a crystalline solid. A stock solution may be made by dissolving the U-93631 in the solvent of choice. U-93631 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of U-93631 in ethanol and DMSO is approximately 20 mg/ml and approximately 25 mg/ml in DMF.

Description

U-93631 is a GABA_A receptor ligand.¹ It accelerates decay of GABA-induced currents in HEK293 cells expressing rat α1β2, β2γ2, and α1γ2 subunit-containing GABA_A receptors when used at a concentration of 5 μM. U-93631 inhibits radioligand binding to the picrotoxin site on α1β2γ2 subunit-containing GABA_A receptors.²

References

1. Dillon, G.H., Im, H.K., Hamilton, B.J., *et al.* U-93631 causes rapid decay of γ-aminobutyric acid-induced chloride currents in recombinant rat γ-aminobutyric acid type A receptors. *Mol. Pharmacol.* **44**(4), 860-865 (1993).
2. Dillon, G.H., Im, W.B., Pregenzer, J.F., *et al.* [4-Dimethyl-3-t-butylcarboxyl-4,5-dihydro (1,5-a) quinoxaline] is a novel ligand to the picrotoxin site on GABA_A receptors, and decreases single-channel open probability. *J. Pharmacol. Exp. Ther.* **272**(2), 597-603 (1995).

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