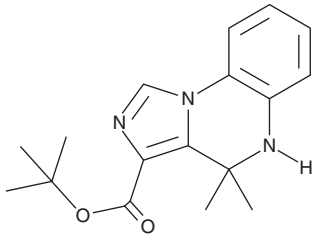
PRODUCT INFORMATION

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:	$C_{17}H_{21}N_3O_2$
FW:	299.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 222, 325 nm
Supplied as:	A crystalline 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

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

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