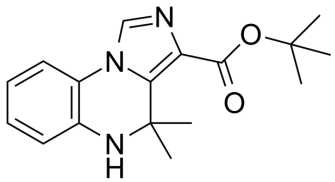
U93631

Cat. No.:	HY-100686
CAS No.:	152273-12-6
Molecular Formula:	$C_{17}H_{21}N_3O_2$
Molecular Weight:	299.37
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 34 mg/mL (113.57 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3403 mL	16.7017 mL	33.4035 mL
	5 mM	0.6681 mL	3.3403 mL	6.6807 mL
	10 mM	0.3340 mL	1.6702 mL	3.3403 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

U93631 is a GABAA receptor ligand of novel chemical structure with IC50 of 100 nM,and has been shown to induce a rapid, time-dependent decay of GABA-induced whole-cell Cl-currents in recombinant GABAA receptors. target: GABAA receptorIC 50: GABAA receptor[1]In vitro: In the presence of U93631 at 5 UM, the peak amplitude decreased as a function of GABA concentration, with the half-maximal inhibitory concentration being approximately 100 nM, which is close to the Kd for the high affinity GABA site(85 nM). It appears that the drug interacts with GABA-bound receptors (at least monoliganded) and accelerates receptor desensitization,rather than acting as an open channel blocker. [1]

REFERENCES

[1]. Dillon,GH et al.U-93631 causes rapid decay of gamma-aminobutyric acid-induced chloride currents in recombinant rat gamma-aminobutyric acid type A receptors.Molecular Pharmacology October 1993, 44 (4) 860-865

Caution: Product has not been fully validated for medical applications. For research use only.

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