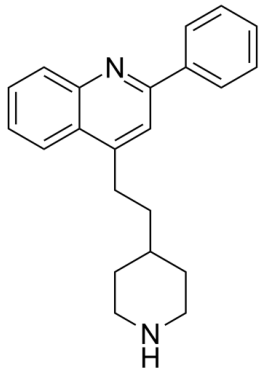
Data Sheet

Product Name:	Pipequaline
Cat. No.:	CS-6386
CAS No.:	77472-98-1
Molecular Formula:	C22H24N2
Molecular Weight:	316.44
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : ≥ 32 mg/mL (101.13 mM)



BIOLOGICAL ACTIVITY:

Pipequaline (PK 8165) is a partial **benzodiazepine receptor** agonist with anxiolytic activity[1][2]. IC50 & Target: Benzodiazepine receptor[1] **In Vivo:** Intravenously administered pipequaline exerts a partial suppression of activations by kainate, glutamate and acetylcholine. Microiontophoretic applications of pipequaline reduces the neuronal activation by kainate[2]. Pipequaline produces dose-related decreases in motor activity. Pipequaline produces significant dose-related decreases in the number of head-dips made[3] .

PROTOCOL (Extracted from published papers and Only for reference)

Animal Administration: [3]Rats: Pipequaline is dissolved in water to give injection volumes of 2 mL/kg. Rats are injected with 5, 10, and 50 mg/kg pipequaline. Infrared cells in the walls of the box provided automated measures of locomotor activity and rearing, respectively[3].

References:

[1]. Bradwejn J, et al. Effects of PK 8165, a partial benzodiazepine receptor agonist, on cholecystokinin-inducedactivation of hippocampal pyramidal neurons: a microiontophoretic study in the rat. Eur J Pharmacol. 1985 Jun 19;112(3):415-8.

[2]. Debonnel G, et al. Pipequaline acts as a partial agonist of benzodiazepine receptors: an electrophysiological study in the hippocampus of the rat. Neuropharmacology. 1987 Sep;26(9):1337-42.

CAIndexNames:

Quinoline, 2-phenyl-4-[2-(4-piperidinyl)ethyl]-

SMILES:

C1(C2=CC=CC=C2)=NC3=CC=CC=C3C(CCC4CCNCC4)=C1

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