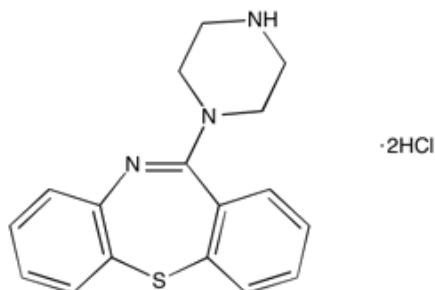


Catalog # 10-2588
Norquetiapine 2HCl

CAS# 111974-74-4

11-(1-Piperazinyl)-dibenzo[b,f][1,4]thiazepine dihydrochloride

Lot # X106721



Pharmacologically active metabolite of quetiapine.¹ Exhibits distinct pharmacological activity from quetiapine and plays an important role in its antidepressant activity.² Activates ERK1/2 and induces release of BDNF in C6 glioma cells which may contribute to the antidepressant properties of quetiapine.³ Inhibits the norepinephrine transporter which may contribute to the antipsychotic activity of quetiapine.⁴

- 1) Altamura *et al.* (2012), *Effect of quetiapine and norquetiapine on anxiety and depression in major psychoses using a pharmacokinetic approach: a prospective observational study*; Clin. Drug Investig., **32** 213
- 2) Lopez Munoz and Alamo *et al.* (2013), *Active metabolites as antidepressant drugs: the role of norquetiapine in the mechanism of action of quetiapine in the treatment of mood disorders*; Front. Psychiatry, **4** 102
- 3) Di. Benedetto *et al.* (2012), *N-desalkylquetiapine activates ERK1/2 to induce GDNF release in C6 glioma cells: a putative cellular mechanism for quetiapine as antidepressant*; Neuropharmacology, **62** 209
- 4) Bjorkholm *et al.* (2013), *Role of concomitant inhibition of the norepinephrine transporter for the antipsychotic effect of quetiapine*; Eur. Neuropsychopharmacol., **23** 709

PHYSICAL DATA

Molecular Weight:	368.32
Molecular Formula:	C ₁₇ H ₁₇ N ₃ S • 2HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO, methanol, or water
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO methanol or distilled water may be stored at -20°C for up to 3 months.

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