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.\(^4\)

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  

**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.