

Product Name:	Quetiapine Fumarate
Product Number:	Q013
CAS Number:	111974-72-2
Molecular Formula:	$C_{21}H_{25}N_3O_2S \cdot 0.5C_4H_4O_4$
Molecular Weight:	441.54
Form:	Powder
Appearance:	White to off-white powder
Solubility:	Slightly soluble in DMSO and DMF. slightly soluble in water.
Source:	Synthetic
Storage Conditions:	2-8C
Description:	<p>Quetiapine Fumarate is an inhibitor of dopamine and serotonin. Serotonin is a neurotransmitter thought to play a role in depression and schizophrenia.</p> <p>Classified as a Dangerous Good. May be subject to additional shipping charges. Contact us for details.</p>
Mechanism of Action:	Quetiapine Fumarate is a dibenzothiazepine with antagonist activity at dopamine (D1, D2, D3) and serotonin (5-HT1A and 5-HT2) receptors. It also antagonizes adrenoreceptors (alpha 1A, alpha 1b, alpha 2) and histamine receptor (H1).
References:	<p>Richelson E and Souder T (2000) Binding of antipsychotic drugs to human brain receptors focus on newer generation compounds. Life Sci.68(1):29-39 PMID 11132243</p> <p>Wetzel H et al (1995) Seroquel (ICI 204 636), a putative "atypical" antipsychotic, in schizophrenia with positive symptomatology: Results of an open clinical trial and changes of neuroendocrinological and EEG parameters. Psychopharmacol 119(2):231-238 PMID 7659771</p> <p>Wang H et al (2005) Olanzapine and quetiapine protect PC12 cells from B-amyloid peptide25-35-induced oxidative stress and the ensuring apoptosis. J. Neurosci. Res. 81(4):572-580</p>