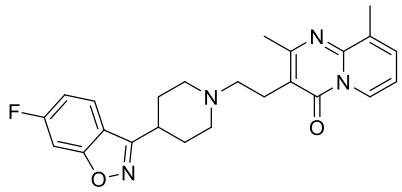
Product data sheet

MedKoo Cat#: 329518 Name: Ocaperidone CAS#: 129029-23-8 Chemical Formula: $C_{24}H_{25}FN_4O_2$ Exact Mass: 420.1962 Molecular Weight: 420.49	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Ocaperidone, also known as R 79598, is a highly potent and efficacious dopamine-D2 antagonist with concomitant, equivalent serotonin 5-HT2 antagonism. Ocaperidone inhibited dopamine agonist (apomorphine, amphetamine or cocaine)-induced behavioral effects at low doses (0.014-0.042 mg/kg). Ocaperidone completely blocked the dopamine agonist behavior at slightly higher doses (0.064 mg/kg). Ocaperidone is expected to exert pronounced haloperidol-like effects on the positive symptoms of schizophrenic patients but with risperidone-like low extrapyramidal side effect liability and improved patient compliance.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	16.0	38.1

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.38 mL	11.89 mL	23.78 mL
5 mM	0.48 mL	2.38 mL	4.76 mL
10 mM	0.24 mL	1.19 mL	2.38 mL
50 mM	0.05 mL	0.24 mL	0.48 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

N/A

In vivo study

N/A

7. Bioactivity

Biological target:

Ocaperidone acts as a 5-HT_2 and dopamine D_2 antagonist, and a 5-HT_{1A} agonist, with Kis of 0.14 nM, 0.46 nM, 0.75 nM, 1.6 nM and 5.4 nM for 5-HT_2, a_1-adrenergic receptor, dopamine D_2, histamine H_1 and a_2-adrenergic receptor, respectively, and a pEC50 and pKi of 7.60 and 8.08 for h5-HT_{1A}.

In vitro activity

N/A

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In vivo activity

N/A

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.