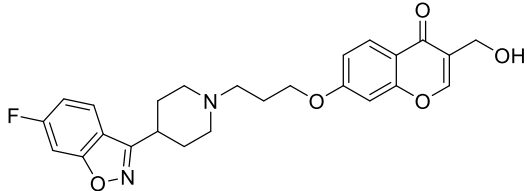


Product data sheet



MedKoo Cat#: 571332 Name: Abaperidone free base CAS: 183849-43-6 (free base) Chemical Formula: C ₂₅ H ₂₅ FN ₂ O ₅ Exact Mass: 452.1748 Molecular Weight: 452.4824	
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:

Abaperidone, also known as FI 8602, is an antipsychotic. Reduced hsp70 in the prefrontal cortex may play a critical role in the etiology of many schizophrenia symptoms and may be linked to an atypical profile of antipsychotics, such as abaperidone.

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
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.21 mL	11.05 mL	22.10 mL
5 mM	0.44 mL	2.21 mL	4.42 mL
10 mM	0.22 mL	1.11 mL	2.21 mL
50 mM	0.04 mL	0.22 mL	0.44 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

TBD

In vivo study

1. García-Osta A, Frechilla D, Del Río J. Reduced basal and phencyclidine-induced expression of heat shock protein-70 in rat prefrontal cortex by the atypical antipsychotic abaperidone. *Prog Neuropsychopharmacol Biol Psychiatry*. 2003 Feb;27(1):31-6. doi: 10.1016/s0278-5846(02)00311-1. PMID: 12551723.

7. Bioactivity

Biological target:

Abaperidone is a potent antagonist of 5-HT_{2A} receptor and dopamine D₂ receptor with IC₅₀s of 6.2 and 17 nM.

In vitro activity

TBD

In vivo activity

Product data sheet



Abaperidone, a novel drug with an atypical antipsychotic profile, was compared, at pharmacologically equivalent doses, with the atypical antipsychotics clozapine and risperidone and also with haloperidol, a classical antipsychotic. Abaperidone and clozapine reduced basal hsp70 mRNA expression in the rat striatum and in the prefrontal cortex.

Reference: Prog Neuropsychopharmacol Biol Psychiatry. <https://pubmed.ncbi.nlm.nih.gov/12551723/>

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.