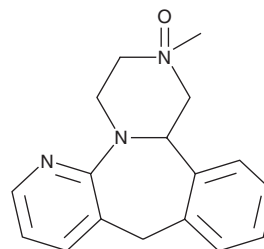# PRODUCT INFORMATION

Mirtazapine N-oxide
Item No. 34214

CAS Registry No.: 155172-12-6
Formal Name: 1,2,3,4,10,14b-hexahydro-2-methyl-pyrazino[2,1-a]
pyrido[2,3-c][2]benzazepine, 2-oxide
MF: $C_{17}H_{19}N_3O$
FW: 281.4
Purity: ≥95% (mixture of diastereomers)
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

   Mirtazapine N-oxide is supplied as a solid. A stock solution may be made by dissolving the mirtazapine N-oxide in the solvent of choice, which should be purged with an inert gas. Mirtazapine N-oxide is soluble in the organic solvent methanol.

Description

   Mirtazapine N-oxide is a metabolite of mirtazapine.[1] It is formed from mirtazapine by the cytochrome P450 (CYP) isoforms CYP1A2 and CYP3A4 in human liver microsomes.

Reference

1. Störmer, E., von Moltke, L.L., Shader, R.I., *et al.* Metabolism of the antidepressant mirtazapine in vitro: Contribution of cytochromes P-450 1A2, 2D6, and 3A4. *Drug Metab. Dispos.* **28(10)**, 1168-1175 (2000).