

Product Name : CLOZAPINE N-OXIDE

Synonyms : Clozapine N-oxide

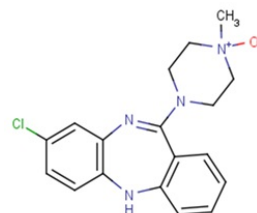
Cat No. : M18447

CAS Number : 34233-69-7

Molecular Formula : C₁₈H₁₉ClN₄O

Formula Weight : 342.82

Chemical Name : 3-Chloro-6-(4-methyl-4-oxidopiperazin-4-ium-1-yl)-5H-benzo[b][1,4]benzodiazepine



Description : Clozapine N-oxide is a major metabolite of clozapine that can be detected in the earliest excretion time interval after clozapine administration. It is produced by the action of cytochrome P450 (CYP) isoforms CYP1A2 and CYP3A4, whose activities, in turn, can be affected by drugs and disease. Clozapine N-oxide is normally biologically inactive. However, it can be used in designer receptor exclusively activated by designer drugs, also known as DREADDs, technology to modulate synthetic receptors in vivo.

Pathway : Others

Target : Other Targets

Receptor : Others

Solubility : DMSO : ≥ 100 mg/mL 291.70 mM; Methanol : ≥ 28.6 mg/mL 83.43 mM H₂O : 1 mg/mL 2.92 mM;

SMILES : Clc1ccc2Nc4ccccc4C(=Nc2c1)N3CC[N+](O-)(C)CC3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Dain, J.G., et al. Biotransformation of clozapine in humans. Drug Metabolism and Disposition 25(5), 603-609 (1997).