Delorazepam
Item No. 15938

CAS Registry No.: 2894-67-9
Formal Name: 7-chloro-5-(2-chlorophenyl)-1,3-dihydro-2H-1,4-benzodiazepin-2-one
Synonyms: Chlordesmethyldiazepam, NSC 169895, Ro 5-3027
MF: C15H10Cl2N2O
FW: 305.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax 227, 319 nm

Laboratory Procedures
For long term storage, we suggest that delorazepam be stored as supplied at -20°C. It should be stable for at least two years.

Delorazepam is supplied as a crystalline solid. A stock solution may be made by dissolving the delorazepam in the solvent of choice. Delorazepam is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of Delorazepam in these solvents is approximately 10, 30, 30 mg/ml, respectively.

Delorazepam is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, delorazepam should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Delorazepam has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Delorazepam is a benzodiazepine with anxiolytic effects. It is a metabolite of the designer drug diclazepam that can be detected in either the serum or urine. Delorazepam can also be produced by enzymatic treatment of lorazepam with β-glucuronidase. This compound is intended for forensic and research applications.

References

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