Zoxazolamine
Item No. 17565

CAS Registry No.: 61-80-3
Formal Name: 5-chloro-2-benzoxazolamine
Synonyms: 2-Amino-5-chlorobenzoxazole, Contrazole, NSC 24995
MF: C7H5ClN2O
FW: 168.6
Purity: ≥98%
UV/Vis.: λmax: 244, 286 nm
Supplied as: A crystalline 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

Zoxazolamine is supplied as a crystalline solid. A stock solution may be made by dissolving the zoxazolamine in the solvent of choice, which should be purged with an inert gas. Zoxazolamine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of zoxazolamine in ethanol is approximately 10 mg/ml and approximately 50 mg/ml in DMSO and DMF.

Zoxazolamine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, zoxazolamineshould first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Zoxazolamine 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.

Description

Zoxazolamine is a potent skeletal muscle relaxant that also has uricosuric activity.1 It is metabolized by an array of cytochrome P450 (CYP450) isoforms. As a result, recovery time from zoxazolamine-induced paralysis is used as a measure for change in CYP450 expression in mice.2,3 Zoxazolamine also dose-dependently modulates the expression of pigmentation factors in a keratinocyte-melanocyte co-culture system.4

References