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%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax: 244, 286 nm

Laboratory Procedures

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

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

Zoxazolamine is a potent skeletal muscle relaxant that also has uricosuric activity. 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. Zoxazolamine also dose-dependently modulates the expression of pigmentation factors in a keratinocyte-melanocyte co-culture system.

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17565

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herewith. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.