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Product Information

DL-Aminoglutethimide

Product Number **A 9657**
Store at Room Temperature

Product Description

Molecular Formula: $C_{13}H_{16}N_2O_2$
Molecular Weight: 232.3
CAS Number: 125-84-8
Melting point: 149-150 °C^{1,2}
 λ_{max} : 242 nm (methanol)
Extinction coefficient: $E^{1\%}_{1cm} = 10.7-11.8$
Specific rotation: 0 ($c=1$, methanol at 25 °C)

Aminoglutethimide inhibits the enzyme steroid aromatase, which is involved in the biosynthesis of estrogens (e.g., conversion of androstenedione to estrone). It is currently used as an effective agent for the treatment of advanced breast cancer in post-menopausal women. A comprehensive review article with 45 references has been published.³

In neutral methanol (and also in 0.1 N sulfuric and 0.1 N sodium hydroxide) the product shows an absorption maximum at approximately 242 nm and a shoulder at approximately 282 nm. The entire spectrum from 400 nm to 210 nm has been published.³

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

The product is virtually insoluble in water, but is freely soluble in several organic solvents (methanol, methylene chloride, chloroform, acetone, and glacial acetic acid).³ It is soluble in a 1:1 mixture of glacial acetic acid:methanol (50 mg/ml). It is poorly soluble in ethyl acetate, 0.1 N HCl, and absolute ethanol.³

The hydrochloride salt of DL-glutethimide is freely soluble in water.¹ For injection into research animals, dissolving the free base form into a minimum volume of 1 M HCl, then diluting with saline or buffered saline should be suitable.

References

1. The Merck Index, 11th ed., Entry# 452.
2. Dictionary of Organic Compounds, 5th ed., Buckingham, J., ed., Chapman and Hall (New York, NY: 1982), Entry# A-02511.
3. Analytical Profiles of Drug Substances, Vol. 15, Florey, K., ed., Academic Press (New York, NY: 1986), pp. 35-69.

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