

Aminoglutethimide

Catalog No: tcsc2205



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

125-84-8

Formula:

$C_{13}H_{16}N_2O_2$

Pathway:

Others

Target:

Aromatase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

DL-Aminoglutethimide

Observed Molecular Weight:

232.28

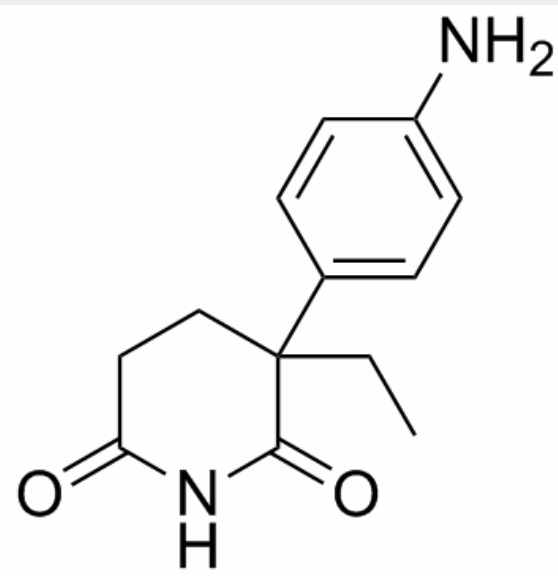
Product Description

Aminoglutethimide is an aromatase inhibitor with IC50 of 10 μ M.

Target: Aromatase

Aminoglutethimide inhibits ACTH receptor (ACTH-R) mRNA expression in ovine adrenocortical cells in a time-dependent fashion. Aminoglutethimide significantly suppresses steroid secretion and the baseline ACTH-R mRNA expression in a dose-dependent fashion (300 μ M AG, $5\pm1\%$; 30 μ M AG, $64\pm1\%$; 3 μ M AG, $108\pm19\%$ compared with control cells, $100\pm11\%$) by affecting the gene expression or by decreasing transcript accumulation via an effect on RNA stability, in the human NCI-h295 adrenocortical carcinoma cell line, which expresses functional ACTH receptors and produces steroids of the glucocorticoid, mineralocorticoid and androgen pathway [1, 2].

Aminoglutethimide (150 mg/kg) abolishes the induction of ornithine decarboxylase (ODC) and almost depletes the gonads and plasma of progesterone or testosterone elicited by human chorionic gonadotropin (hCG) in the ovary of adult female mice and the testis of immature male mice, which is related to an inhibition of cAMP-dependent protein kinase (IC_{50} 287 μ M) rather than blockade of the steroidogenic pathway [3].



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