

Carbimazole

Catalog No: tcsc2668



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

22232-54-8

Formula:

$C_7H_{10}N_2O_2S$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

186.23

Product Description

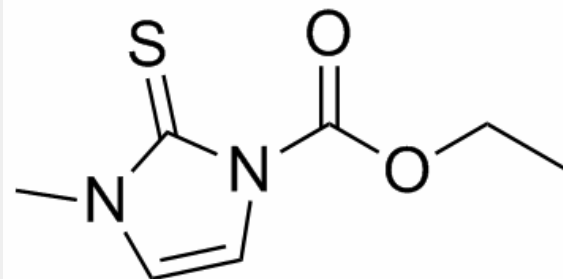
Carbimazole is an imidazole antithyroid agent.

Target: Others

Carbimazole is an effective thyroid hormone inhibitor under a class of drugs known as pro-drugs. It is considered a pro-drug because it converts to methimazole after being absorbed by the body, generating an antithyroid action that works against hyperthyroidism

(excessive production of thyroid hormones) and thyrotoxicosis (inflammation of the thyroid gland) [1]. Methimazole prevents the thyroid peroxidase enzyme from coupling and iodinating the tyrosine residues on thyroglobulin, hence reducing the production of the thyroid hormones T3 and T4 (thyroxine) [2].

Carbimazole (CBZ) is one of the major drugs currently used for the treatment of Graves' disease. Experiments with [35S] CBZ in rats showed that the drug is so rapidly transformed to MMI after i.v. injection (within 3 min) that very little of the unchanged drug would be expected to reach the thyroid gland. The antithyroid action of CBZ in rats, therefore, can be ascribed entirely to the MMI to which it is rapidly converted [3].



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