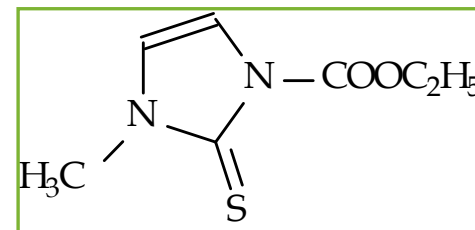


Carbimazole

- Carbimazole is used to treat hyperthyroidism. It is a pro-drug as after absorption it is converted to the active form, methimazole. Methimazole prevents the peroxidase enzyme from coupling and iodinating the tyrosine residues on thyroglobulin, hence reducing the production of the thyroid hormones T3 and T4 (thyroxine).
- Therapy for hyperthyroidism generally starts at a high dose of 15 – 40 mg continued until the patient has normal thyroid function, and then reduced to a maintenance dose of 5 - 15mg. Treatment is usually given for 12 - 18 months followed by a trial withdraw.
- The onset of anti-thyroid effect is rapid but the onset of clinical effects on thyroid hormone levels in the blood is much slower. This is because the large store of pre-formed T3 and T4 in the thyroid gland has to be depleted before any beneficial clinical effect occurs.
- The chemical name is 2,3-dihydro-3-methyl-2-thioxo-1H-imidazole-1-carboxylic acid ethyl ester.



CAS: [22232-54-8]
Formula: C₇H₁₀N₂O₂S
M. Weight: 186,23