



Product Information

Product ID C0172
CAS No. 22232-54-8
Chemical Name 2,3-Dihydro-3-methyl-2-thioxo-1H-imidazole-1- carboxylic acid ethyl ester

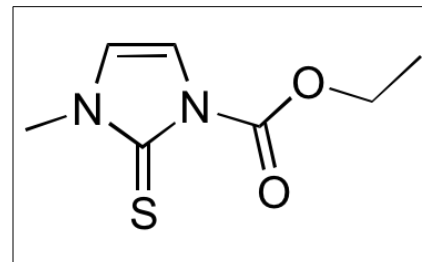
Synonym Athyromazole, Neo-mercazone, Neo-Thyreostat

Formula C₇H₁₀N₂O₂S
Formula Wt. 186.23
Melting Point 122-125°C
Purity ≥98%
Solubility Soluble in water (500parts), ethanol (50parts), and chloroform (3parts).

Store Temp Ambient

Ship Temp Ambient

Description Carbimazole is a methimazole prodrug that is clinically used to treat hyperthyroidism and Graves' disease; it exhibits immunomodulatory and anti-thyroid activities. Carbimazole inhibits thyroid peroxidase, decreasing production of thyroid hormones T3 and T4. In clinical subjects with Graves' disease, carbimazole increases levels of IL-2 and free radical scavengers and decreases levels of IL-2Rs.



Bulk quantities available upon request

Product ID	Size
C0172	1 g
C0172	5 g
C0172	10 g

References Manna D, Roy G, Mugesh G. Antithyroid drugs and their analogues: synthesis, structure, and mechanism of action. *Acc Chem Res.* 2013 Nov 19;46(11):2706-15. PMID: 23883148.

Wilson R, McKillop JH, Buchanan LM, et al. The effect of carbimazole therapy on interleukin 2, interleukin 2 receptors and free radicals. *Autoimmunity.* 1990;8(1):3-7. PMID: 2129783.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.