

Product Information

Carbimazole, Purity $\geq 98\%$

Cat. No.: X24-09-YM1416

Size: 50 mg; 100 mg; 200 mg; 500 mg

MDL: MFCD00027421

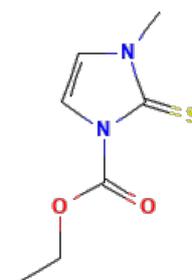
CAS Number: 22232-54-8

Compound CID: 31072

Synonym: 22232-54-8; Carbimazole; Athyromazole; Carbimazol;

Carbomethoxymethylimidazole; Carbinazole; Neomercazole; Basolest; Thyrostat; Ethyl

3-methyl-2-sulfanylideneimidazole-1-carboxylate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Carbimazole, soluble in DMSO and ethanol and insoluble in water, is an imidazole antithyroid agent. The molecular weight of the compound is 186.23, and its molecular formula is C ₇ H ₁₀ N ₂ O ₂ S.
Molecular Weight	186.23
Molecular Formula	C ₇ H ₁₀ N ₂ O ₂ S
IUPAC Name	Ethyl 3-methyl-2-sulfanylideneimidazole-1-carboxylate
InChI	InChI=1S/C7H10N2O2S/c1-3-11-7(10)9-5-4-8(2)6(9)12/h4-5H,3H2,1-2H3
InChI Key	CFOYWRHIYXMDOT-UHFFFAOYSA-N
Canonical SMILES	CCOC(=O)N1C=CN(C1=S)C
Isomeric SMILES	C1=CN(C(=O)N=C1N)[C@H]2[C@@H]([C@@H]([C@H](O2)CO)O)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 35 mg/mL (187.93 mM); Water: insoluble; Ethanol: 14 mg/mL (75.17 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Carbimazole can be studied extensively for its potential therapeutic applications in the treatment of hyperthyroidism, especially in conditions like Graves' disease.



Storage

Store at -20°C, and keep desiccated.
