Metergoline

Product Number  M 3668
Storage Temperature -20 °C

Product Description
Molecular Formula: C₂₅H₂₉N₃O₂
Molecular Weight: 403.5
CAS Number: 17692-51-2
Melting point: 146-149 °C
Extinction coefficient: E₁%= 165 (291 nm)

Metergoline is an ergot derivative or ergoline and is a dopamine agonist with actions and uses similar to that of bromocriptine. It is also a serotonin antagonist and has been used similarly to bromocriptine.¹

Metergoline, a putative 5-HT1 receptor antagonist, did not block the effects of 5-hydroxytryptamine (5-HT) and was found to be acting as a full agonist at the 5-HT1D β receptor.³

To test the hypothesis that the suppression of fat selection and/or consumption by systemic serotonin agonists involves stimulation of central 5-HT receptors, a series of experiments was performed in nondeprived rats. In one experiment, third cerebroventricular (3V) infusion of the nonselective 5-HT antagonist metergoline prevented the reduction in fat, but not carbohydrate feeding caused by systemic dexfenfluramine. Furthermore, 3V metergoline alone increased fat intake.⁴

Hyperglycemia induced by 5-carboxamidotryptamine was prevented by pretreatment with metergoline.⁵

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
Metergoline is soluble in chloroform (50 mg/ml). Metergoline is very soluble in pyridine and soluble in alcohol and acetone. It is practically insoluble in benzene, ether, and water.¹

References
1. The Merck Index, 12th ed., Entry# 5999.