

Product Name : Theobromine

Synonyms : Diurobromine; NSC 5039; SC-15090

Cat No. : M16101

CAS Number : 83-67-0

Molecular Formula : C7H8N4O2

Formula Weight : 180.16

: 3,7-dimethyl-1H-purine-2,6-dione **Chemical Name**

3,7-Dimethylxanthine. The principle alkaloid in Theobroma cacao (the cacao bean) and other plants. A xanthine alkaloid that

is used as a bronchodilator and as a vasodilator. It has a weaker diuretic activity than THEOPHYLLINE and is also a less powerful stimulant of smooth muscle. It has practically no stimulant effect on the central nervous system. It was formerly

CH₃

used as a diuretic and in the treatment of angina pectoris and hypertension.

Pathway : Endocrinology/Hormones

Target : AChR

Description

Receptor : Adenosine receptor; PDE

: Water: 330 mg/L Solubility

SMILES O=C(N1)N(C)C2=C(N(C)C=N2)C1=O

Storage : (-20℃)

Stability : ≥ 2 years

Reference

1.Chou CC, Vickroy TW. Am J Vet Res. 2003 Feb;64(2):216-24.