

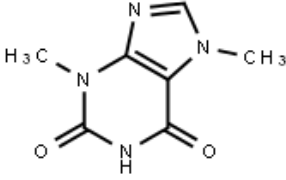
## Certificate of Analysis

Target	Inhibitors & Agonists>>Others>>Other Targets
Cat.No	DCK-009
Name	Theobromine

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## Chemical Properties

CAS	83-67-0
Formula	C <sub>7</sub> H <sub>8</sub> N <sub>4</sub> O <sub>2</sub>
MW	180.16
Storage	4°C for 1 year, -20°C for more than 2 years
Structure	 <p>The chemical structure of Theobromine is a purine derivative. It consists of a fused bicyclic ring system: a six-membered imidazole ring fused to a five-membered imidazole ring. The six-membered ring has a carbonyl group (=O) at the 2-position and a hydrogen atom (NH) at the 4-position. The five-membered ring has a methyl group (CH<sub>3</sub>) at the 3-position and a methyl group (CH<sub>3</sub>) at the 7-position. The SMILES notation for Theobromine is <chem>CN1C=NC2=C1C(=O)N(C)C2=O</chem>.</p>
Purity	>98%, Standard References Grade

**Website:**  
www.dcchemicals.com