
Theophylline monohydrate

产品编号: D54494

CAS: 5967-84-0

分子式: $C_7H_8N_4O_2 \cdot H_2O$

纯度: 99.79%

InChi Key: InChIKey=INQSMEFCAIHTJG-UHFFFAOYSA-N

Smiles: O.Cn1c2c([nH]cn2)c(=O)n(C)c1=O

外观: 固体粉末

作用通路: Chromatin/Epigenetic; DNA Damage/DNA Repair; GPCR/G Protein; Neuroscience;
Metabolism

作用靶点: Adenosine Receptor; HDAC; PDE

溶解性: DMSO: 12 mg/mL (60.55 mM)

保存条件: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

产品介绍: Theophylline appears to inhibit phosphodiesterase and prostaglandin production, regulate calcium flux and intracellular calcium distribution, and antagonize adenosine. Theophylline is a natural alkaloid derivative of xanthine isolated from the plants *Camellia sinensis* and *Coffea arabica*. Physiologically, this agent relaxes the bronchial smooth muscle, produces vasodilation (except in cerebral vessels), stimulates the CNS, stimulates the cardiac muscle, induces diuresis, and increases gastric acid secretion; it may also suppress inflammation and improve contractility of the diaphragm.