



Theophylline Standard solution (DWT97)

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

PRODUCT INFORMATION

Product Overview	1.0 mg/mL analytical Theophylline Standard
Conjugate	N/A
Cas.No	58-55-9
Molecular Weight	180.16g/mol
Format	Liquid
Concentration	1.0 mg/mL
Size	1 ml
Buffer	Methanol
Storage	Store unopened in freezer(-10 °C to 25 °C)

BACKGROUND

Introduction	Theophylline is a natural alkaloid derivative of xanthine isolated from the plants <i>Camellia sinensis</i> and <i>Coffea arabica</i> . Theophylline appears to inhibit phosphodiesterase and prostaglandin production, regulate calcium flux and intracellular calcium distribution, and antagonize adenosine. Physiologically, this agent relaxes bronchial smooth muscle, produces vasodilation (except in cerebral vessels), stimulates the CNS, stimulates cardiac muscle, induces diuresis, and increases gastric acid secretion; it may also suppress inflammation and improve contractility of the diaphragm.
Keywords	Theophyllin; Theophylline anhydrous; 1,3-dimethylxanthine; 1,3-dimethyl-7H-purine-2,6-dione