

Catalog # 10-1095

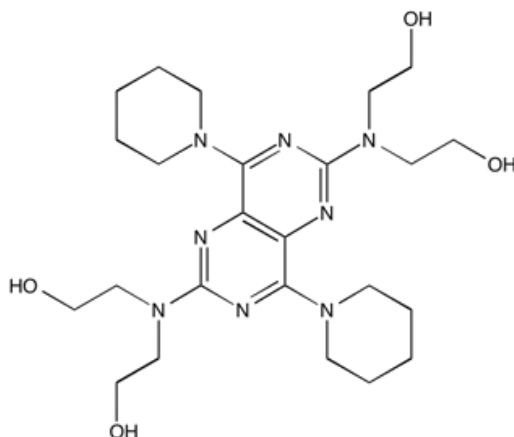
Dipyridamole

CAS# 58-32-2

2,6-bis(Diethanolamino)-4,8-dipiperidinopyrimido[5,4-d]pyrimidine

NSC 515776

Lot # X101673



Phosphodiesterase inhibitor (IC₅₀=0.37, 0.38, 0.45, 0.9 and 4.5 μM for PDE11, 6, 10, 5 and 8 respectively.^{1,2} Potent equilibrative nucleoside transporter 1 (ENT1) inhibitor K_i=8.2 nM vs. 144.8 nM for ENT1 and ENT2 respectively.³ Antiplatelet activity.⁴

- 1) Fujishige *et al.* (1999), *Cloning and characterization of a novel human phosphodiesterase that hydrolyzes both cAMP and cGMP (PDE10A)*; J. Biol. Chem., **274** 18438
- 2) Soderling *et al.* (1998), *Cloning and characterization of a cAMP-specific cyclic nucleotide phosphodiesterase*; Proc. Natl. Acad. Sci. USA, **95** 8991
- 3) Lin and Buolamwini (2007), *Synthesis, flow cytometric evaluation, and identification of highly potent dipyridamole analogues as equilibrative nucleoside transporter 1 inhibitors.*; J. Med. Chem., **50** 3906
- 4) Coccheri (2010), *Antiplatelet drugs – do we need new options? With a reappraisal of direct thromboxane inhibitors*; Drugs, **70** 887

PHYSICAL DATA

Molecular Weight:	504.63
Molecular Formula:	C ₂₄ H ₄₀ N ₈ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 5 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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