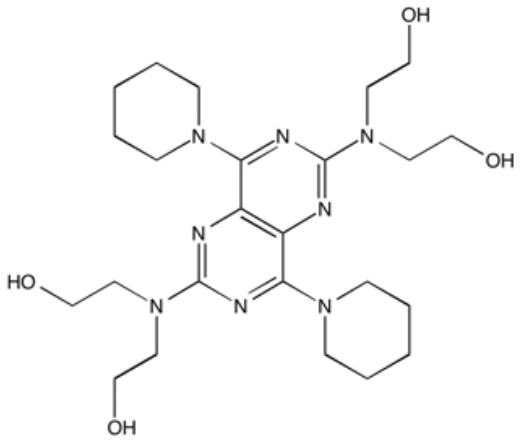
# Catalog # 10-1095
# Dipyridamole

CAS# 58-32-2

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

NSC 515776

Lot # X101673




Phosphodiesterase inhibitor ($IC_{50}$=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: | $C_{24}H_{40}N_8O_4$ |
| 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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