1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: $\text{C}_{24}\text{H}_{40}\text{N}_8\text{O}_4$
- Batch Molecular Weight: 504.63
- Physical Appearance: Yellow solid
- Solubility: DMSO to 100 mM, ethanol to 10 mM
- Storage: Store at RT

2. ANALYTICAL DATA

- HPLC: Shows 99.5% purity
- $^1$H NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:
  - Theoretical: 57.12, 7.99, 22.21
  - Found: 57.01, 7.97, 22.15
**Product Name:** Dipyridamole  
**Catalog No.:** 0691  
**Batch No.:** 4  
**EC Number:** 200-374-7  
**IUPAC Name:** 2,6-bis(Diethanolamino)-4,8-dipiperidinopyrimido[5,4-d]pyrimidine

**Description:**  
Coronary vasodilator; adenosine transport inhibitor. Phosphodiesterase inhibitor (IC₅₀ values are 0.37, 0.38, 0.45, 0.9 and 4.5 μM for PDE11, 6, 10, 5 and 8 respectively). Inhibits ENT1 and ENT2 (IC₅₀ = 144.8 nM and Kᵢ = 8.18 nM for ENT1).

**Physical and Chemical Properties:**  
Batch Molecular Formula: C₂₄H₄₀N₁₂O₄  
Batch Molecular Weight: 504.63  
Physical Appearance: Yellow solid  
Minimum Purity: >99%  
Batch Molecular Structure:

![Molecular Structure of Dipyridamole](image)

**Storage:** Store at RT  
**Solubility & Usage Info:**  
DMSO to 100 mM  
ethanol to 10 mM

**Stability and Solubility Advice:**  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**  