## Product Name: Dipyridamole

<table>
<thead>
<tr>
<th>Catalog No.: 0691</th>
<th>Batch No.: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number: 58-32-2</td>
<td>EC Number: 200-374-7</td>
</tr>
<tr>
<td>IUPAC Name: 2,6-bis(Diethanolamino)-4,8-dipiperidinopyrimido[5,4-d]pyrimidine</td>
<td></td>
</tr>
</tbody>
</table>

### 1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{24}H_{40}N_8O_4$
- **Batch Molecular Weight:** 504.63
- **Physical Appearance:** Yellow crystalline solid
- **Solubility:** DMSO to 100 mM, ethanol to 10 mM
- **Storage:** Store at RT

![Batch Molecular Structure](image)

### 2. ANALYTICAL DATA

- **Melting Point:** Between 165 - 166°C
- **HPLC:** Shows >99.5% purity
- **$^1$H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>57.12</td>
<td>57.17</td>
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<tr>
<td>Hydrogen</td>
<td>7.99</td>
<td>8.1</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>22.21</td>
<td>22.2</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Information**

**Product Name:** Dipyridamole  
**Catalog No.:** 0691  
**Batch No.:** 3

**CAS Number:** 58-32-2  
**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 = 8.19 nM for ENT1).

**Physical and Chemical Properties:**  
- **Molecular Formula:** C₉₄H₇₈N₄O₄  
- **Molecular Weight:** 504.63  
- **Appearance:** Yellow crystalline solid  
- **Minimum Purity:** >99%

**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:**  

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bio-techne.com  
info@bio-techne.com  
technsupport@bio-techne.com

North America  
Tel: (800) 343 7475

China  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373

Europe Middle East Africa  
Tel: +44 (0)1235 529449

Rest of World  
www.tocris.com/distributors  
Tel:+1 612 379 2956