

**Product Name:** TC-T 6000

**Catalog No.:** 5100

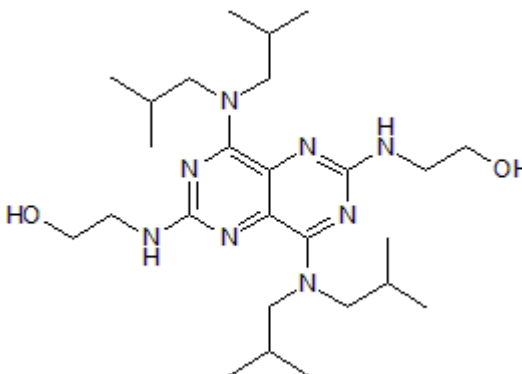
**Batch No.:** 1

CAS Number: 949467-71-4

IUPAC Name: 2,2'-[[4,8-Bis[bis(2-methylpropyl)amino]pyrimido[5,4-d]pyrimidine-2,6-diyl]diimino]bis-ethanol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>48</sub>N<sub>8</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 504.71  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
 ethanol to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.41 (Acetone:Petrol [30:70])  
**HPLC:** Shows 98.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.87	9.59	22.2
Found	61.56	9.58	22.33

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**Description:**

Potent equilibrative nucleoside transporter 4 (ENT4) inhibitor (IC<sub>50</sub> = 74.4 nM). Exhibits 20-fold and 80-fold selectivity for ENT4 over ENT2 and ENT1, respectively.

**Physical and Chemical Properties:**

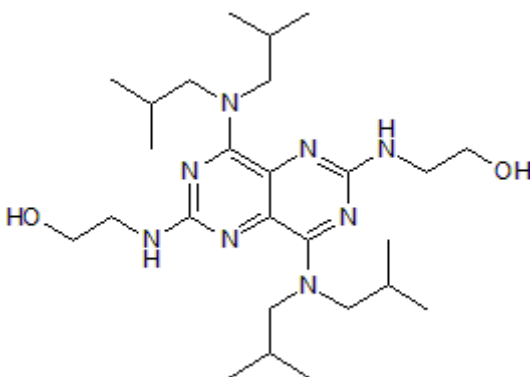
Batch Molecular Formula: C<sub>26</sub>H<sub>48</sub>N<sub>8</sub>O<sub>2</sub>

Batch Molecular Weight: 504.71

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 20 mM

ethanol to 20 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:**

**Wang et al** (2013) Dipyridamole analogs as pharmacological inhibitors of equilibrative nucleoside transporters. Identification of novel potent and selective inhibitors of the adenosine transporter function of human equilibrative nucleoside transporter 4 (hENT4). *Biochem.Pharmacol.* **86** 1531. PMID: 24021350.

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