

Dipyridamole

Catalog No: tcsc2352



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

58-32-2

Formula:

$C_{24}H_{40}N_8O_4$

Pathway:

Metabolic Enzyme/Protease

Target:

Phosphodiesterase (PDE)

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

504.63

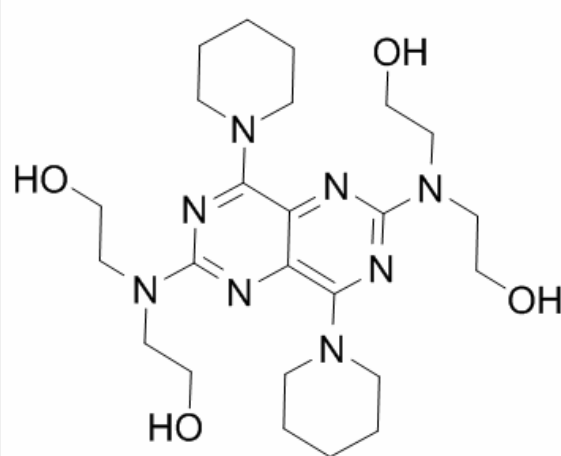
Product Description

Dipyridamole (Persantine) is a phosphodiesterase inhibitor that blocks uptake and metabolism of adenosine by erythrocytes and vascular endothelial cells.

Target: Phosphodiesterase (PDE)

Dipyridamole concentrations of 1 nmol/ml blood caused 90% inhibition of adenosine metabolism. Dipyridamole at therapeutic

concentrations causes significant inhibition of adenosine metabolism in whole blood [1]. Dipyridamole has a dose-dependent inhibitory effect on thromboxane synthesis which was independent of aggregation. Dipyridamole also inhibited malonyldialdehyde production in response to both thrombin and arachidonic acid [2]. Dipyridamole enhances platelet inhibition by amplifying the signaling of the NO donor sodium nitroprusside. These data support the concept that enhancement of endothelium-dependent NO/cGMP-mediated signaling may be an important in vivo component of dipyridamole action [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!