



LKT Laboratories, Inc.

Dipyridamole

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Product Information

Product ID D3362

CAS No. 58-32-2

Chemical Name 2,2',2'',2'''-[(4,8-Di-1-piperidinylpyrimido[5,4-d]pyrimidine-2,6-diyl)dinitrilo]tetrakisethanol

Synonym Anginal, Cardoxin, Coridil, Dipyridan, Gulliostin, Natyl, Persantine, Piroan, Protangix

Formula C₂₄H₄₀N₈O₄

Formula Wt. 504.63

Melting Point 163 °C

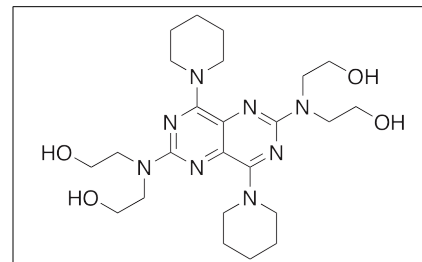
Purity ≥98%

Solubility Soluble in methanol, chloroform and ethanol. Slightly soluble in water.

Store Temp -20 °C

Ship Temp Ambient

Description Dipyridamole is a non-selective inhibitor of phosphodiesterases (PDEs) that increases levels of cAMP and cGMP; it also inhibits adenosine deaminase. Dipyridamole exhibits vasodilatory, anti-thrombotic, and anti-inflammatory activities. In monocytes, dipyridamole decreases expression of matrix metalloproteinase 9 (MMP9) by inhibiting TNF-α-induced NF-κB activation, degradation of IκBα, and activation of p38 MAPK. Dipyridamole also inhibits vascular stenosis by suppressing proliferation of venous and arterial smooth muscle cells.



Bulk quantities available upon request

Product ID	Size
D3362	1 g
D3362	5 g
D3362	25 g

References Massaro M, Scoditti E, Carluccio MA, et al. Dipyridamole decreases inflammatory metalloproteinase-9 expression and release by human monocytes. *Thromb Haemost.* 2013 Feb;109(2):280-9. PMID: 23238437.

Alberts MJ. Antithrombotic therapy for secondary stroke prevention. *Continuum (Minneapolis)*. 2011 Dec;17(6 2ndary Stroke Prevention):1255-66. PMID: 22810029.

Zhuplatov SB, Masaki T, Blumenthal DK, et al. Mechanism of dipyridamole's action in inhibition of venous and arterial smooth muscle cell proliferation. *Basic Clin Pharmacol Toxicol.* 2006 Dec;99(6):431-9. PMID: 17169124.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.