



Catalog # 10-2781

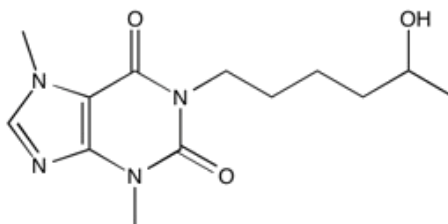
Lisofylline (rac)

6493-06-7

1-(5-Hydroxyhexyl)-3,7-dimethylpurine-2,6-dione (racemic)

LSF; BL-194

Lot # S102056



Displays anti-inflammatory activity. Regulates immune cell function and autoimmune response by inhibition of IL-12 signalling and cytokine production¹. Protects pancreatic beta cells and prevents type I diabetes in non-obese diabetic mice². Reduces LPS-induced TNF alpha levels in CD-1 mice³. Cell permeable.

- 1) Yang *et al.* (2005), *Lisofylline: a potential lead for the treatment of diabetes*; *Biochem. Pharmacol.*, **69** 1
- 2) Yang *et al.* (2002), *The anti-inflammatory compound lisofylline prevents Type I diabetes in non-obese diabetic mice*; *Diabetologia*, **45** 1307
- 3) Wyska *et al.* (2010), *Pharmacokinetic-pharmacodynamic modeling of methylxanthine derivatives in mice challenged with high-dose lipopolysaccharide*; *Pharmacology*, **85** 264

PHYSICAL DATA

Molecular Weight:	280.33
Molecular Formula:	C ₁₃ H ₂₀ N ₄ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 60 mg/ml), Ethanol (up to 20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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