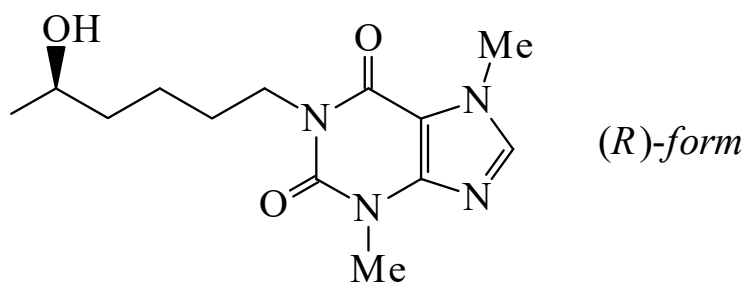




>>Entry Name: Lisofylline, INN

Synonym(s): 3,7-Dihydro-1-(5-hydroxyhexyl)-3,7-dimethyl-1*H*-purine-2,6-dione, 9Cl. 1-(5-Hydroxyhexyl)theobromine, 9Cl. Penthydroxyfylline. BL 194



CAS Registry Number: 6493-06-7

Related CAS Registry Numbers(s): 100324-80-9

Molecular Formula: C<sub>13</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 280.326

Accurate Mass: 280.153541

Percentage Composition: C 55.70%; H 7.19%; N 19.99%; O 17.12%

Source/Synthesis: Metab. of Pentoxifylline [FLX23-T](#). Inhibits induced inflammatory cytokines

Use/Importance: Antiinflammatory agent

Calculated Log P Data: Log P 0.38 (uncertain value) (calc)

>>Variant: (*R*)-form

Synonym(s): CT 1501R

CAS Registry Number: 100324-81-0

Molecular Formula: C<sub>13</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 280.326

Accurate Mass: 280.153541

Percentage Composition: C 55.70%; H 7.19%; N 19.99%; O 17.12%

Physical Description: No phys. props. reported

Other Data: Pharmacol. active isomer

>>Variant: (±)-form

CAS Registry Number: 151852-32-3

Molecular Formula: C<sub>13</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 280.326

Accurate Mass: 280.153541

Percentage Composition: C 55.70%; H 7.19%; N 19.99%; O 17.12%

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 124°

#### References:

Mohler, W. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1966, **299**, 448, (*synth*)

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Tranquille, N. *et al.*, *J. Cardiovasc. Pharmacol.*, 1991, **18**, 35, (*pharmacol*)

*Pat. Coop. Treaty (WIPO)*, 1993, *Cell Therapeutics*, 93 17 684; *CA*, **120**, 23570w, (*resoln, pharmacol*)

Rice, G.C. *et al.*, *Shock*, 1994, **1**, 254, (*pharmacol*)