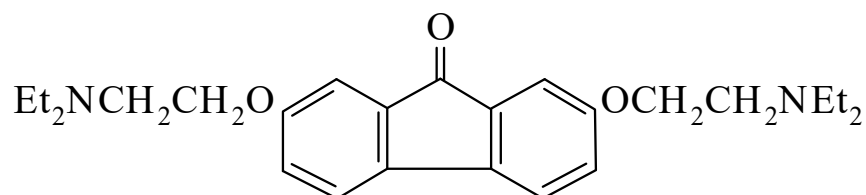




>>Entry Name: Tilorone, INN

Synonym(s): 2,7-Bis[2-(diethylamino)ethoxy]-9H-fluoren-9-one, 9Cl. Bis-DEAE-fluorenone. NSC 143969



CAS Registry Number: 27591-97-5

Molecular Formula: C₂₅H₃₄N₂O₃

Molecular Weight: 410.555

Accurate Mass: 410.256943

Percentage Composition: C 73.14%; H 8.35%; N 6.82%; O 11.69%

Use/Importance: Shows virucidal, interferogenic, antitumour, antiinflammatory and immunostimulatory props. Highly active interferon inducer in mice but inactive in humans

Calculated Log P Data: Log P 5.23 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 1780 mg/kg. Induces lysosomal storage of sulfated glycosaminoglycans. Mutagenic props.

>>Derivative: Hydrochloride (1:2)

Synonym(s): Tilorone hydrochloride, USAN

CAS Registry Number: 27591-69-1

Physical Description: Cryst. (butanone/MeOH)

Melting Point: Mp 235-237°

Hazard & Toxicity: LD₅₀ (rat, orl) 852 mg/kg. Mutagenic props.

Aldrich: 22095-7

References:

- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 908A, (nmr)
Andrews, E.R. *et al.*, *J. Med. Chem.*, 1974, **17**, 882, (synth, pharmacol)
Burke, S.M. *et al.*, *Synth. Commun.*, 1976, **6**, 371, (synth)
Chandra, P. *et al.*, *Top. Curr. Chem.*, 1977, **72**, 125, (pharmacol)
Chandra, P. *et al.*, *Antibiotics (N.Y.)*, 1979, **5**, 385, (rev, pharmacol)
Levin, R.H. *et al.*, *Prog. Med. Chem.*, 1981, **18**, 135, (rev)
Stringfellow, D.A., *Handb. Exp. Pharmacol.*, 1984, **71**, 371, (rev, activity)
Schulze, W. *et al.*, *Pharmazie*, 1984, **39**, 320, (synth)
Regelson, W., *Int. Encycl. Pharmacol. Ther.*, 1985, **115**, 429, (rev, pharmacol)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 555
Fischer, J. *et al.*, *Biochem. J.*, 1995, **312**, 215; 1996, **315**, 369, (pharmacol)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TGB000