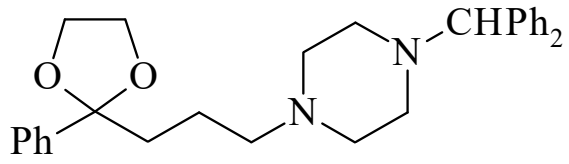
>>**Entry Name: Dotarizine,** INN
Synonym(s): 1-(Diphenylmethyl)-4-[3-(2-phenyl-1,3-dioxolan-2-yl)propyl]piperazine



CAS Registry Number: 84625-59-2
Type of Compound Code(s): XA4635 XA2620

Molecular Formula: $C_{29}H_{34}N_2O_2$
Molecular Weight: 442.6
Accurate Mass: 442.262028
Percentage Composition: C 78.70%; H 7.74%; N 6.33%; O 7.23%
Use/Importance: Calcium antagonist; shows potent 5HT antagonist activity. Under investigation for antimigraine and antivertigo effects
Physical Description: Cryst. (MeOH)
Development Status: Phase III clinical trials (1992)
Melting Point: Mp 100-101°
Calculated Log P Data: Log P 6.28 (uncertain value) (calc)
Hazard & Toxicity: LD_{50} (mus, orl) >8000 mg/kg. LD_{50} (mus, ivn) 42.5 mg/kg

References:

Gubert, S. *et al.*, *Arzneim.-Forsch.*, 1987, **37**, 1103, *(synth, ir, pmr, pharmacol)*
Agut, J. *et al.*, *Eur. J. Pharmacol.*, 1990, **183**, Abst. P. Fr. 033, *(pharmacol)*
Villarroya, M. *et al.*, *Br. J. Pharmacol.*, 1995, **114**, 369, *(pharmacol)*