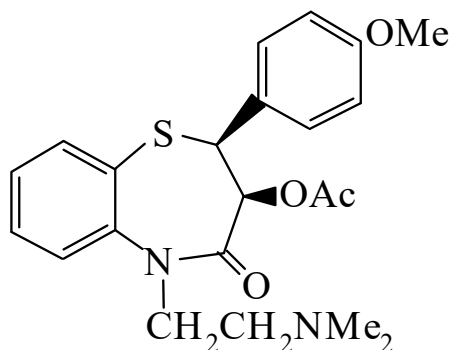




>>>**Entry Name:** Diltiazem, BAN, INN

Synonym(s): 3-(Acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-dihydro-2-(4-methoxyphenyl)-1,5-benzothiazepin-4(5*H*)-one, 9Cl. Adizem. Angiozem. Angitil. Calazem. Calcicard. Cardizem. Diacor. Dilzem. Latiazem. Slozem. Tiazac. Many other names



CAS Registry Number: 34933-06-7

Extra CAS Registry Numbers(s): 75472-92-3

Type of Compound Code(s): XA1650 XA7000 XA5210 XA2620 XA1020

Molecular Formula: C₂₂H₂₆N₂O₄S

Molecular Weight: 414.524

Accurate Mass: 414.161328

Percentage Composition: C 63.75%; H 6.32%; N 6.76%; O 15.44%; S 7.74%

Biological Use/Importance: Coronary vasodilator, calcium antagonist. Antihypertensive and antianginal agent. Smooth muscle relaxant

Development Status: Marketed drug. Launched 1991

Calculated Log P Data: Log P 3.57 (uncertain value) (calc)

>>>**Variant:** (2*S*,3*S*)-form

Synonym(s): (+)-*cis*-form

CAS Registry Number: 42399-41-7

Molecular Formula: C₂₂H₂₆N₂O₄S

Molecular Weight: 414.524

Accurate Mass: 414.161328

Percentage Composition: C 63.75%; H 6.32%; N 6.76%; O 15.44%; S 7.74%

Other Data: *trans*-Isomers (2*R*,3*S*) and (2*S*,3*R*) have also been prepd. but show poor pharmacol. activity

>>>**Derivative:** Hydrochloride

Synonym(s): Diltiazem hydrochloride, JAN, USAN. Anginyl. Herbesser. Blocalcin 60

CAS Registry Number: 33286-22-5

Melting Point: Mp 187-188°

Solubility: Insol. C₆H₆; sol. H₂O, MeOH, CHCl₃

Experimental Log P Data: Log P 2.7 (exp)

Hazard & Toxicity: LD₅₀ (rat, orl) 560 mg/kg

Fluka: 38489

Sigma: D2521

>>>**Derivative:** *O*-De-Ac

CAS Registry Number: 42399-40-6

Molecular Formula: C₂₀H₂₄N₂O₃S

Molecular Weight: 372.487

Accurate Mass: 372.150763

Percentage Composition: C 64.49%; H 6.49%; N 7.52%; O 12.89%; S 8.61%

Metabolism: Major metab. of Diltiazem in mammals

Physical Description: Gummy oil

Optical Rotation: [α]_D²⁵ +134.4 (c, 1 in CHCl₃)

References: