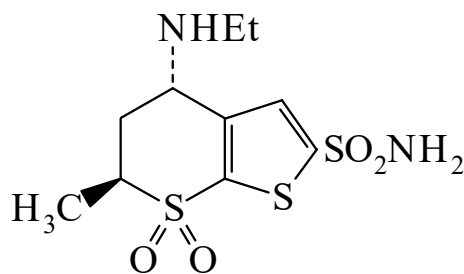




>>Entry Name: Dorzolamide, BAN, INN, USAN

Synonym(s): 4-(Ethylamino)-5,6-dihydro-6-methyl-4*H*-thieno[2,3-*b*]thiopyran-2-sulfonamide 7,7-dioxide, 9Cl. Trusopt



Related CAS Registry Numbers(s): 120279-89-2 120279-90-5 120279-95-0 120280-13-9 122028-37-9

Type of Compound Code(s): XA2650

Molecular Formula: C₁₀H₁₆N₂O₄S₃

Molecular Weight: 324.445

Accurate Mass: 324.027218

Percentage Composition: C 37.02%; H 4.97%; N 8.63%; O 19.73%; S 29.65%

Use/Importance: Carbonic anhydrase inhibitor. Antiglaucoma agent

Development Status: Launched 1995 (US)

>>Variant: (4*S*,6*S*)-form

Synonym(s): (-)-*trans*-form

CAS Registry Number: 120279-96-1

Molecular Formula: C₁₀H₁₆N₂O₄S₃

Molecular Weight: 324.445

Accurate Mass: 324.027218

Percentage Composition: C 37.02%; H 4.97%; N 8.63%; O 19.73%; S 29.65%

>>Derivative: Hydrochloride

Synonym(s): MK 507. L 671 152

CAS Registry Number: 130693-82-2

Physical Description: Cryst. (H₂O)

Optical Rotation: $[\alpha]_{\text{D}}^{25} -17.1$ (c, 1 in H₂O)

>>Derivative: Maleate

CAS Registry Number: 147600-19-9

Optical Rotation: $[\alpha]_{\text{Hg405}}^{25} -36.2$ (c, 1 in MeOH)

References:

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Wang, R.F. *et al.*, *Arch. Ophthalmol. (Chicago)*, 1990, **108**, 511; 1991, **109**, 1297, (*pharmacol*)

Blacklock, T.J. *et al.*, *J.O.C.*, 1993, **58**, 1672, (*synth, pmr, cmr, ir, uv*)

Matuszewski, B.K. *et al.*, *Pharm. Res.*, 1994, **11**, 449, (*resoln*)

Quint, M.-P., *Anal. Profiles Drug Subst.*, 1999, **26**, 283-318, (*rev*)