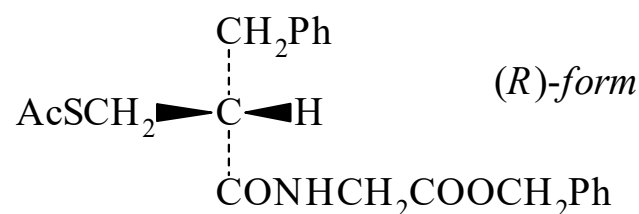




>>Entry Name: Acetorphan

Synonym(s): Benzyl *N*-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]glycinate. Tiorfan



CAS Registry Number: 76932-19-9

Molecular Formula: C₂₁H₂₃NO₄S

Molecular Weight: 385.483

Accurate Mass: 385.134779

Percentage Composition: C 65.43%; H 6.01%; N 3.63%; O 16.60%; S 8.32%

Biological Use/Importance: Enkephalinase inhibitor. Antidiarrhoeal agent

Development Status: Launched 1993 (France)

Other Data: Prodrug. of Thiorphan [NKH13-R](#)

>>Variant: (*R*)-form

Synonym(s): Dexecadotril, INN

CAS Registry Number: 112573-72-5

Molecular Formula: C₂₁H₂₃NO₄S

Molecular Weight: 385.483

Accurate Mass: 385.134779

Percentage Composition: C 65.43%; H 6.01%; N 3.63%; O 16.60%; S 8.32%

Melting Point: Mp 71°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +24.1$ (c, 1.2 in MeOH)

>>Variant: (*S*)-form

Synonym(s): Ecadotril, INN, USAN

CAS Registry Number: 112573-73-6

Molecular Formula: C₂₁H₂₃NO₄S

Molecular Weight: 385.483

Accurate Mass: 385.134779

Percentage Composition: C 65.43%; H 6.01%; N 3.63%; O 16.60%; S 8.32%

Biological Use/Importance: ACE inhibitor

Melting Point: Mp 71°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -24.1$ (c, 1.2 in MeOH)

>>Variant: ($\pm$)-form

Synonym(s): Racecadotril, INN

CAS Registry Number: 81110-73-8

Molecular Formula: C₂₁H₂₃NO₄S

Molecular Weight: 385.483

Accurate Mass: 385.134779

Percentage Composition: C 65.43%; H 6.01%; N 3.63%; O 16.60%; S 8.32%

Physical Description: Solid (Et₂O)

Melting Point: Mp 89°

References:

Eur. Pat., 1981, 38 758; *CA*, **96**, 123304s, (*synth, pharmacol*)

Lecomte, J.M. *et al.*, *J. Pharmacol. Exp. Ther.*, 1986, **237**, 937, (*pharmacol*)

Giros, B. *et al.*, *J. Pharmacol. Exp. Ther.*, 1987, **243**, 666, (*synth, pharmacol, pmr, cmr*)

Eur. Pat., 1989, *Societe Civile Bioprojet*, 318 377; *CA*, **112**, 56701c, (*synth, pharmacol isomers*)

Baumer, P. *et al.*, *Gut*, 1992, **33**, 753, (*pharmacol*)

Matheson, A.J. *et al.*, *Drugs*, 2000, **59**, 829-835, (*use*)

Monteil, T. *et al.*, *Synth. Commun.*, 2001, **31**, 211-218, (*R-form, synth, pmr*)