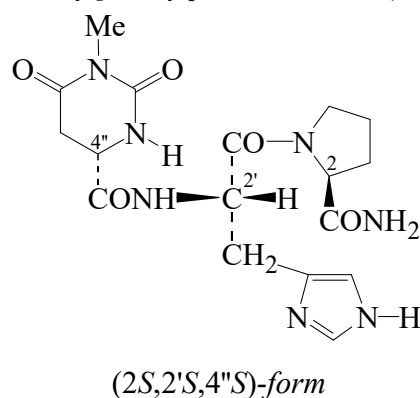




>>Entry Name: Taltirelin, INN

Synonym(s): *N*-[(Hexahydro-1-methyl-2,6-dioxo-4-pyrimidinyl)carbonyl]histidylprolinamide, 9Cl. (1-Methyl-4,5-dihydroorotyl)histidylprolinamide. TA 0910



CAS Registry Number: 114818-28-9

Molecular Formula: C<sub>17</sub>H<sub>23</sub>N<sub>7</sub>O<sub>5</sub>

Molecular Weight: 405.413

Accurate Mass: 405.176068

Percentage Composition: C 50.37%; H 5.72%; N 24.18%; O 19.73%

Biological Use/Importance: TRH analogue. Used in the treatment of CNS disorders. Investigated, in animal models, for treatment of narcolepsy and alcohol dependence

>>Variant: (2*S*,2'*S*,4''*R*)-form

Synonym(s): L-L-(*R*)-form

CAS Registry Number: 128111-67-1

Molecular Formula: C<sub>17</sub>H<sub>23</sub>N<sub>7</sub>O<sub>5</sub>

Molecular Weight: 405.413

Accurate Mass: 405.176068

Percentage Composition: C 50.37%; H 5.72%; N 24.18%; O 19.73%

Optical Rotation:  $[\alpha]_{\text{D}}^{23} -116.4$  (c, 1 in H<sub>2</sub>O)

>>Variant: (2*S*,2'*S*,4''*S*)-form

Synonym(s): L-L-(*S*)-form

CAS Registry Number: 103300-74-9

Molecular Formula: C<sub>17</sub>H<sub>23</sub>N<sub>7</sub>O<sub>5</sub>

Molecular Weight: 405.413

Accurate Mass: 405.176068

Percentage Composition: C 50.37%; H 5.72%; N 24.18%; O 19.73%

Physical Description: Cryst. (H<sub>2</sub>O)

Melting Point: Mp 72-75°

Optical Rotation:  $[\alpha]_{\text{D}}^{23} -13.6$  (c, 1 in H<sub>2</sub>O)

Other Data: Pharmacol. active isomer

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- Eur. Pat.*, 1986, *Tanabe Seiyaku*, 168 042; *CA*, **105**, 60949n, (*synth, pharmacol*)  
Suzuki, M. *et al.*, *J. Med. Chem.*, 1990, **33**, 2130-2137, (*synth, pmr, pharmacol*)  
Iwasaki, Y. *et al.*, *J. Neurol. Sci.*, 1992, **112**, 147-151, (*pharmacol*)  
Chishima, S., *J. Pharm. Biomed. Anal.*, 1994, **12**, 795-804, (*anal*)  
Kinoshita, K. *et al.*, *Br. J. Pharmacol.*, 1995, **116**, 3274-3278, (*pharmacol*)  
Rezvani, A.H. *et al.*, *Alcohol.: Clin. Exp. Res.*, 1997, **21**, 261-266  
Nishino, S. *et al.*, *J. Neurosci.*, 1997, **17**, 6401-6408, (*pharmacol*)