



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

Synonym(s): 6-D-Tryptophanluteinizing hormone-releasing factor (pig), 9Cl. Decapeptyl. Gonadorelin [6-D-Trp]. Triptoreline. AY 25650. D-Trp⁶ LHRH. CL 118532

CAS Registry Number: 57773-63-4

H-5-OxoPro-His-Trp-Ser-Tyr-D-Trp-Leu-Arg-Pro-Gly-NH₂

Molecular Formula: C₆₄H₈₂N₁₈O₁₃

Molecular Weight: 1311.465

Accurate Mass: 1310.630877

Percentage Composition: C 58.61%; H 6.30%; N 19.22%; O 15.86%

Use/Importance: Gonadorelin analogue; antineoplastic agent used in the treatment of prostate cancer

Optical Rotation: [α]_D²³ -59 (c, 0.33 in AcOH aq.)

Sigma: L3033

>>Derivative: 4,4'-Methylene bis(3-hydroxy-2-naphthalenecarboxylate) (salt)

Synonym(s): Triptorelin pamoate

CAS Registry Number: 124508-66-3

Development Status: Approved by FDA (2000)

References:

- Coy, D.H. *et al.*, *J. Med. Chem.*, 1976, **19**, 423, (*synth, props*)
Banik, U.K. *et al.*, *Reprod. Processes Contracept.*, 1981, 143, (*rev*)
Barron, J.L. *et al.*, *J. Clin. Endocrinol. Metab.*, 1982, **54**, 1169, (*metab*)
Belg. Pat., 1986, 904 458; *CA*, **106**, 5449, (*synth*)
Horvath, A. *et al.*, *Biochem. Biophys. Res. Commun.*, 1986, **138**, 419, (*synth, props*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 967
Lhomme, C. *et al.*, *Gynecol. Oncol.*, 1999, **75**, 187-193, (*pharmacol*)