Product Data Sheet

Product Name: Nafarelin
Cat. No.: GC33080

Chemical Properties

Cas. No.	76932-56-4		
SMILES	{Glp}-His-Trp-Ser-Tyr-{2-Naph-Ala}-Leu-Arg-Pro-Gly-NH2		
Formula	$C_{66}H_{83}N_{17}O_{13}$	M.Wt	1322.47
Solubility	>15.67 mg/mL in DMSO; >51.8 mg/mL in H2O	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Nafarelin		

Background

Nafarelin is an agonist of gonadotropin-releasing hormone (GNRH).[1,2,3] It is a long-acting agent that, after an initial increase in sex hormone levels, decreases the level of circulating gonadotropins and sex hormones. *In vivo*, nafarelin (0.5-2.0 μg/kg, s.c.) reduces plasma levels of luteinizing hormone and testosterone as well as testicular volume, sperm count, sperm motility, and duration of ejaculation in male dogs.[1] Nafarelin (32 μg/animal per day) inhibits estrus in female beagle dogs.[2] It also reduces the volume of endometrial tissue in a rat model of endometriosis.[3] Formulations containing nafarelin have been used in the treatment of endometriosis and central precocious puberty.

1.Vickery, B.H., McRae, G.I., Briones, W.V., et al.Dose-response studies on male reproductive parameters in dogs with nafarelin acetate, a potent LHRH agonistJ. Androl.6(1)53-60(1985) 2.McRae, G.I., Roberts, B.B., Worden, A.C., et al.Long-term reversible suppression of oestrus in bitches with nafarelin acetate, a potent LHRH agonistJ. Reprod. Fertil.74(2)389-397(1985) 3.Mizutani, T., Sakata, M., and Terakawa, N.Effect of gonadotropin-releasing hormone agonists, nafarelin, buserelin, and

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leuprolide, on experimentally induced endometriosis in the ratInt. J. Fertil. Menopausal Stud.40(2)106-111(1995)

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