Product Data Sheet

Product Name: Buserelin Acetate
Cat. No.: GC34099

Chemical Properties

Cas. No.	68630-75-1		
SMILES	{pGlu}-His-Trp-Ser-Tyr-{d-Ser(tBu)}-Leu-Arg-Pro-NHEt		
Formula	$C_{62}H_{90}N_{16}O_{15}$	M.Wt	1299.48
Solubility	Water : 50 mg/mL (38.48 mM; Need ultrasonic)	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	Buserelin Acetate		

Background

Buserelin (INN) Acetate is a gonadotropin-releasing hormone agonist (GnRH agonist).target: GnRHIn vivo: Buserelin treatment reduced the number of neurons along the entire gastrointestinal tract, with increased relative numbers of CRF-immunoreactive submucosal and myenteric neurons in colon ($p < 0.05$ and $p < 0.01$, respectively). [1]Compared with controls, buserelin treatment caused loss of myenteric neurons in the ileum and colon ($P<0.01$), a thinner circular muscle layer in ileum ($P<0.05$) and longitudinal muscle layer in colon ($P<0.05$). Long term follow up of buserelin induced enteric neuropathy reveals reduced body weight, loss of myenteric neurons, thinning of muscle layers, and increased numbers of eosinophils and T lymphocytes in the gastrointestinal tract.[2] A marked enteric neuronal loss with modest effects on GI function is found after buserelin treatment. Increased feces fat content is suggested an early sign of dysfunction.[3]

[1]. Sand E et al. Buserelin treatment to rats causes enteric neurodegeneration with moderate effects on CRF-immunoreactive neurons and Enterobacteriaceae in colon, and in acetylcholine-mediated permeability in ileum. BMC Res Notes. 2015 Dec 28;8:824. [2]. Jnsson A et al. Long term follow up of buserelin induced enteric neuropathy in rats. Mol

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Med Rep. 2016 Apr;13(4):3507-13. [3]. Sand E et al. Structural and functional consequences of buserelin-induced enteric neuropathy in rat. BMC Gastroenterol. 2014 Dec 11;14:209.

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