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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

Alarelin (acetate)
Item No. 30993

CAS Registry No.: 79561-22-1
Formal Name: 6-D-alanine-9-(N-ethyl-L-prolinamide)-1-9-luteinizing hormone-releasing factor (swine), diacetate
Synonyms: pGlu-HWSYALRP-NHEt, [D-Ala^6, des-Gly^{10}]GnRH-ethylamide, des-Gly GnRH
MF: $C_{56}H_{78}N_{16}O_{12} \cdot 2C_2H_4O_2$
FW: 1,287.4
Purity: ≥98%
UV/Vis.: λ_{max}: 221 nm
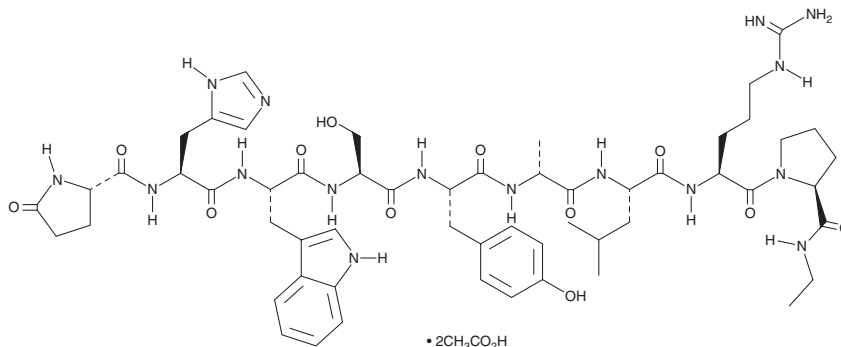**Supplied as:** A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

• 2CH$_3$CO$_2$H

Laboratory Procedures

Alarelin (acetate) is supplied as a crystalline solid. A stock solution may be made by dissolving the alarelin (acetate) in the solvent of choice, which should be purged with an inert gas. Alarelin (acetate) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of alarelin (acetate) in these solvents is approximately 5 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of alarelin (acetate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of alarelin (acetate) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Alarelin is a peptide agonist of gonadotropin-releasing hormone (GnRH).[1] It binds to the GnRH receptor (GnRHR) with a K$_d$ value of 0.2 nM. Alarelin (6 ng, i.c.v.) decreases the expression of *GnRH* in the preoptic area and *GnRHR* in the posterior mediobasal hypothalamus (pMBH) of ovariectomized estradiol-treated rats, indicating an ultrashort negative feedback loop on *GnRH* and *GnRHR* gene expression.[2] It induces desensitization in the pituitary and decreases serum estradiol levels and ovarian and uterine weight in neonatal and adult female rats.[3] Alarelin reduces tumor growth in an HEC-1-B human endometrial carcinoma mouse xenograft model when administered at doses of 20, 40, and 80 μg/kg.[4]

References

1. Nederpelt, I., Georgi, V., Schiele, F., *et al. Br. J. Pharmacol.* **173(1)**, 128-141 (2016).
2. Han, Y.-G., Kang, S.S., Seong, J.Y., *et al. J. Neuroendocrinol.* **11(3)**, 195-201 (1999).
3. Trimiño, E., Pinilla, L., and Aguilar, E. *Acta Endocrinol. (Copenh.)* **129(3)**, 251-259 (1993).
4. Xiaoying, X. and Sanyuan, Z. *Zhonghua Linchuang Yishi Zazhi* **9(7)**, 63-66 (2015).