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## Corifollitropin alfa

<b>Cat. No.:</b>	HY-118860
<b>CAS No.:</b>	195962-23-3
<b>Target:</b>	Estrogen Receptor/ERR
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Corifollitropin alfa (Org 36286) is a long-acting recombinant follicle-stimulating hormone (FSH) analog. Corifollitropin alfa is a FSH Receptor agonist with an EC <sub>50</sub> of 5.0 pM. Corifollitropin alfa stimulates ovulation and can be used in the research of infertility <sup>[1][2][3]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	FSH Receptor <sup>[2]</sup>								
<b>In Vivo</b>	<p>Corifollitropin alfa (20 µg/kg, s.c., single injection) shows a t<sub>1/2</sub> of 17.3 h and C<sub>max</sub> of 3.2 ng/mL/µg/kg in female Wistar rats<sup>[2]</sup>. Corifollitropin alfa (2.5-40 µg/kg, s.c.) stimulates superovulation in rats<sup>[2]</sup>.</p> <p>Corifollitropin alfa (3 µg, supplemented with hCG, s.c.) increases ovulation rate and recovered embryos in rabbits<sup>[3]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Rats<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>2.5, 5, 10, 20, 40 µg/kg.</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injection (s.c), four injections given on 2 subsequent days (0, 8, 24, and 32 h).</td> </tr> <tr> <td>Result:</td> <td>Increased the number of ovulated oocytes, reached maximal value at 20 µg/kg.</td> </tr> </table>	Animal Model:	Rats <sup>[2]</sup>	Dosage:	2.5, 5, 10, 20, 40 µg/kg.	Administration:	Subcutaneous injection (s.c), four injections given on 2 subsequent days (0, 8, 24, and 32 h).	Result:	Increased the number of ovulated oocytes, reached maximal value at 20 µg/kg.
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### REFERENCES

- [1]. Loutradis D, et al. Corifollitropin alfa, a long-acting follicle-stimulating hormone agonist for the treatment of infertility. *Curr Opin Investig Drugs*. 2009 Apr;10(4):372-80.
- [2]. Verboost P, et al. Pharmacologic profiling of corifollitropin alfa, the first developed sustained follicle stimulant. *Eur J Pharmacol*. 2011 Jan 25;651(1-3):227-33.
- [3]. Viudes-de-Castro MP, et al. A single injection of corifollitropin alfa supplemented with human chorionic gonadotropin increases follicular recruitment and transferable embryos in the rabbit. *Reprod Domest Anim*. 2019 Apr;54(4):696-701.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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