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Zuschläge

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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Corifollitropin alfa

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

BIOLOGICAL ACTIVITY

Description	Corifollitropin alfa (Org 36286) is a long-acting recombinant follicle-stimulating hormone (FSH) analog. Corifollitropin alfa is a FSH Receptor agonist with an EC ₅₀ of 5.0 pM. Corifollitropin alfa stimulates ovulation and can be used in the research of infertility ^{[1][2][3]} .	
IC ₅₀ & Target	FSH Receptor ^[2]	
In Vivo	Corifollitropin alfa (20 µg/kg, s.c., single injection) shows a t _{1/2} of 17.3 h and C _{max} of 3.2 ng/mL/µg/kg in female Wistar rats ^[2] . Corifollitropin alfa (2.5-40 µg/kg, s.c.) stimulates superovulation in rats ^[2] . Corifollitropin alfa (3 µg, supplemented with hCG, s.c.) increases ovulation rate and recovered embryos in rabbits ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rats ^[2]
	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.

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]. Verbost 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA