

Cevaprost

cloprostenol for fertility
management protocols in cattle



Cevaprost® and Enzaprost® – the choice is yours

In breeding cattle, one of the main actions of endogenous and exogenous prostaglandin is to cause luteolysis of a mature (5+ day old) corpus luteum (CL). Ensuring complete luteolysis during a synchronisation protocol ensures that progesterone levels drop sufficiently, allowing ovulation to occur and this could have a significant positive impact on conception rates. Ceva can now offer vets both a synthetic and a natural prostaglandin, to compliment any appropriate fertility and reproductive management protocol.



Cevaprost overview

- Contains a racemic mixture of cloprostenol (D and L) to deliver a high concentration of D-cloprostenol, the active isomer, per 2ml dose (250µg)
- Can be used as the prostaglandin of choice in all appropriate fertility and reproductive management protocols in cattle
- The licensed indications are equivalent to those of the leading racemic and single isomer cloprostenols available on the UK market¹

Enzaprost overview

- Contains dinoprost, a natural prostaglandin
- Dinoprost has an equivalent luteolytic effect to synthetic analogues² and so can also be used as the prostaglandin of choice in all appropriate fertility and reproductive management protocols in cattle
- Dinoprost has been shown, *in vitro*, to have a greater uterotonic effect than synthetic prostaglandins³ and could be useful as part of a treatment protocol for uterine infections, such as metritis and pyometra⁴



	Cevaprost	Enzaprost
Prostaglandin	Cloprostenol	Dinoprost
Synthetic vs. natural	Synthetic	Natural
Standard dose rate	2ml per injection	5ml per injection
Milk withdrawal time	0 hours	0 hours
Meat withdrawal time	1 day	2 days
Pack size	1 X 20ml and 10 X 20ml	1 X 30ml
Doses per bottle	10 x 2ml	6 x 5ml

THE CHOICE IS YOURS

Whether your preference is for synthetic or natural prostaglandins, Ceva has a solution for you.

It is recommended, for practices that select Cevaprost (cloprostenol), that a bottle of Enzaprost is available in the practice for when its enhanced uterotonic effects are needed³.



Cevaprost

part of the ReprodAction fertility management range from Ceva

Cevaprost® expands Ceva's popular range of fertility products to help vets and farmers manage bovine reproductive performance.

Cevaprost and **Enzaprost®** – the prostaglandin team delivering choice for luteolysis and support with the management of metritis and pyometra* (see overleaf).



PRID® Delta

is a progesterone releasing device which achieves greater circulating P4 levels in cattle than other intravaginal devices available in the U.K.⁴. This is because it contains 12% more progesterone in total and has 29% more surface area in contact with the vaginal wall, ensuring enhanced P4 absorption⁴.

Farmers can be reassured that **PRID Delta** has a 98%+ retention rate in adult cows⁵ and 99.5% retention rates demonstrated in cross-bred heifers⁶.

Ovarelin®

is a synthetic replicate of the native gonadotropin-releasing hormone (GnRH) that can promptly trigger the release of luteinising and follicle-stimulating hormones (LH and FSH) from the gonadotrope cells in the anterior pituitary. After GnRH treatment (which reaches T_{max} in 15 minutes) LH starts to be released quickly, reaching a peak at around 2 hours post GnRH injection. The ovulation of responsive dominant follicles will then happen 25-30h after its use⁷.



*where there is a functional or persistent corpus luteum

References: 1. Cevaprost summary of product characteristics • 2. Stevenson JS, Phatak AP (2010). Rates of luteolysis and pregnancy in dairy cows after treatment with cloprostenol or dinoprost. *Theriogenology*, May 73(8):1127–1138. • 3. Mallem Y, Desfontis J-C, Gautier F, Gogny M (2003). Uterokinetic effects of dinoprost and d-cholprostenol in the isolated bovine myometrium. *J. vet. Pharmacol. Therap.* 26 (Suppl. 1):82-307. • 4. T. van Werven, F. Waldeck, A.H. Souza, S. Floch, M. Englebienne. Comparison of two intravaginal progesterone releasing devices (PRID®-DELTA vs CIDR) in dairy cows: Blood progesterone profile and field fertility. *Animal Reproduction Science* 138 (2013) 143–149 • 5. Fernandez *et al.* EU Buiatrics poster ABSEBF00012 • 6. Kerby *et al.* The use of a FTAI programme for the use of sexed semen in block calving dairy heifers. *UK Vet Livestock* 26(3):124-130 • 7. Bloch, A. *et al.* Endocrine Alterations Associated with Extended Time Interval Between Estrus and Ovulation in High-Yield Dairy Cows. *Journal of Dairy Science*, 2006. 89(12): p. 4694-4702.

Cevaprost® cloprostenol 250 µg/ml solution for injection contains cloprostenol 0.250 mg/ml (as 0.263 mg/ml cloprostenol sodium) **Enzaprost®** 5 mg/ml solution for injection for cattle and pigs contains 5mg dinoprost (as trometamol) per ml. **PRID® DELTA** 1.55 g vaginal delivery system for cattle contains progesterone 1.55 g per device. **Ovarelin®** 50 µg/ml, solution for injection for cattle contains 50.0 µg gonadorelin (as diacetate tetrahydrate) per ml. **Legal Category for all products:** UK **POM-V**

For further information, please refer to the product SPC, data sheet or pack insert.

Prescription decisions are for the person issuing the prescription alone. Use medicines responsibly (www.noah.co.uk/responsible)

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