

GHRF, bovine

Cat. No.:	HY-P3607
CAS No.:	88894-91-1
Molecular Formula:	C ₂₂₀ H ₃₆₆ N ₇₂ O ₆₆ S
Molecular Weight:	5104.72
Sequence Shortening:	YADAIFTNSYRKVLGQLSARKLLQDIMNRQQGERNQEQGAKVRL-NH2
Target:	GHSR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	GHRF, bovine (bGRF(1-44)-NH ₂) is the bovine growth hormone (GH)-releasing factor (GHRF). GHRF, bovine increases the release of bovine GH, and shows a synergistic effect with Hydrocortisone (HY-N0583) ^{[1][2]} .
In Vitro	GHRF, bovine (0.001 nM-100 nM; 6 h) increases growth hormone (GH) release from bovine anterior pituitary cells, with maximum release of 262% above control at 100 nM ^[1] . GHRF, bovine (0.0001 nM-100 nM; 24 h) linearly increases GH secretion and is enhanced by Hydrocortisone (HY-N0583) (Cortisol, 10 ng/mL) in anterior pituitary cells cultured in media containing fetal calf serum (FCS) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GHRF, bovine (12 mg/d; i.v.drip; from 118 to 181 d postpartum) has no influence on the mRNA abundance of the liver-type glucose transporter in the liver or kidney of postpartum bovine ^[2] . GHRF, bovine (12 mg/d; i.v.drip; from 118 to 181 d postpartum) also doesn't alter the mRNA abundance of the erythrocyte-type or the intestinal-type glucose transporter in the kidney of postpartum bovine, but results individual differences in the mRNA abundance of the intestinal-type glucose transporter in liver ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Padmanabhan V, et al. Modulation of growth hormone-releasing factor-induced release of growth hormone from bovine pituitary cells. *Domest Anim Endocrinol*. 1987 Oct;4(4):243-52.

[2]. Zhao FQ, et al. Regulation of the gene expression of glucose transporter in liver and kidney of lactating cows by bovine growth hormone and bovine growth hormone-releasing factor. *J Dairy Sci*. 1996 Sep;79(9):1537-42.

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

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