

Beacon (47-73)

Cat. No.:	HY-P3829
CAS No.:	681153-68-4
Molecular Formula:	C ₁₅₆ H ₂₁₇ N ₃₅ O ₄₆ S
Molecular Weight:	3350.66
Sequence Shortening:	WYTIFKDHVSLGDYEIHDGMNLELYQ
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Beacon (47-73) is a C-terminal peptide fragment 47-73 of Beacon, and Beacon is a protein of 73 amino acid. Beacon (47-73) can be used for metabolic syndrome research ^{[1][2]} .
In Vitro	A 3-h exposure to Beacon (47-73) is ineffective, but prolonged (24 and 96 h) exposures significantly lowered basal corticosterone and cortisol secretion from cultured rat and human zona fasciculata/reticularis (ZF/R) cells, respectively. Moreover, Beacon (47-73) (400 nM) counteracted the secretagogue action of 10 nM ACTH on cultured cells. The 96-h exposure to Beacon (47-73) concentration-dependently decreases basal proliferation rate of cultured cells, without inducing significant changes in the number of apoptotic and necrotic cells. Beacon (400 nM) significantly inhibits the proliferogenic effect of 10 nM Adrenomedullin ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In Wistar rats, administration of Beacon (47-73) (3.5 nmol/100 body weight; intraperitoneal injection) elicits within 60 min a marked decrease in the plasma concentration of ACTH, aldosterone and corticosterone, and a moderate lowering of the blood levels of testosterone and estradio ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Agnieszka Ziolkowska, et al. Beacon[47-73] inhibits glucocorticoid secretion and growth of cultured rat and human adrenocortical cells. *Int J Mol Med*. 2004 Sep;14(3):457-61.
- [2]. Y K Ng, et al. Beacon immunoreactivity in the rat hypothalamus. *J Neurosci Res*. 2006 May 1;83(6):1106-17.
- [3]. Agnieszka Ziolkowska, et al. Expression of the beacon gene in endocrine glands of the rat. *Peptides*. 2004 Jan;25(1):133-7.

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

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