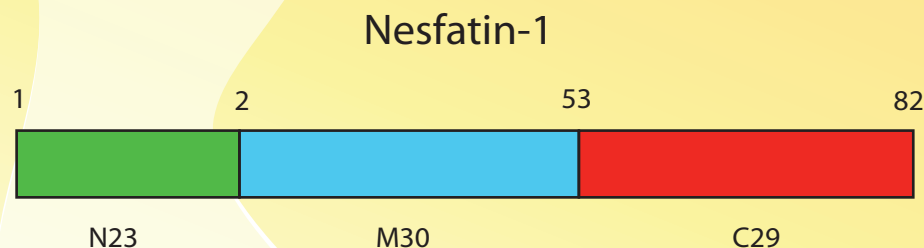


# M30, Obesity Peptide

## Biologically Active Fragment of Nesfatin-1



Nesfatin/nucleobindin 2 (NUCB2) is expressed in the appetite-control hypothalamic nuclei and brainstem nuclei. Nesfatin/NUCB2 expression in the paraventricular nucleus of the hypothalamus was modulated by starvation and refeeding. Intracerebroventricular administration of nesfatin-1 dose-dependently inhibited food intake for 6 hours in male Wistar and leptin resistant, Zucker fatty rats. Intraperitoneal administration of nesfatin-1 and its mid-segment (M30) dose-dependently inhibited food intake for 3 hours in male ICR mice. Intraperitoneal administration of M30 also decreased food intake in leptin-resistant, genetically obese (ob/ob), diabetic (db/db) mice and mice fed a 45% high fat diet for 28 days. Intraperitoneal administration of M30 increased proopiomelanocortin and cocaine- and amphetamine- related peptide mRNA expression in the nucleus of the solitary tract of mice. In addition, intranasal administration of nesfatin-1 significantly inhibited food intake for 6 hours in male Wistar rats.

*Nesfatin-1: An Overview and Future Clinical Application. Shimizu, et al. Endocrine Journal. Online May 20, 2009. doi:10.1507/endocrj.K09E-117.*

### Nesfatin-1 Sequence

	1		24	<b>Human M30</b>
HUMAN		VPIDIDKTKVQNIHPVESAKIEP	PDTGLYYDEYLKQVIDVLE-	
MOUSE		VPIDVDKTKVHNTPEVENARIEP	PDTGLYYDEYLKQVIEVLE-	
		<b>Human M30</b>	53	<b>Mouse M30</b>
HUMAN		TDKHFREKLQK	ADIEEIKSGRLSKELDLVSHHVRTKLDEL	82
MOUSE		TDPHFREKLQK	ADIEEIRSGRLSQELDLVSHKVRTRLDEL	
		<b>Mouse M30</b>		

Catalog Number	Name	Standard Size
003-94	M30 (Mouse)	100ug
003-99	M30 (Human)	100ug



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