

## Prolactin-Releasing Peptide (12-31), rat

<b>Cat. No.:</b>	HY-P3789		
<b>CAS No.:</b>	222988-10-5		
<b>Molecular Formula:</b>	C <sub>104</sub> H <sub>158</sub> N <sub>32</sub> O <sub>26</sub>		
<b>Molecular Weight:</b>	2272.57		
<b>Sequence:</b>	Thr-Pro-Asp-Ile-Asn-Pro-Ala-Trp-Tyr-Thr-Gly-Arg-Gly-Ile-Arg-Pro-Val-Gly-Arg-Phe-NH <sub>2</sub>		
<b>Sequence Shortening:</b>	TPDINPAWYTGRGIRPVGRF-NH <sub>2</sub>		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Sealed storage, away from moisture and light		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)		

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (44.00 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.4400 mL	2.2002 mL	4.4003 mL
	5 mM	0.0880 mL	0.4400 mL	0.8801 mL
	10 mM	0.0440 mL	0.2200 mL	0.4400 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Prolactin-Releasing Peptide (12-31), rat is a fragment of the prolactin releasing peptide (PrRP). Prolactin-Releasing Peptide (12-31), rat shows high affinity for GPR10 receptors. Prolactin-Releasing Peptide (12-31), stimulates calcium mobilization in CHOK1 cells transfected with the PrRP receptor<sup>[1][2]</sup>.

### REFERENCES

[1]. Roland BL, et al. Anatomical distribution of prolactin-releasing peptide and its receptor suggests additional functions in the central nervous system and periphery. *Endocrinology*. 1999 Dec;140(12):5736-45.

[2]. Langmead CJ, et al. Characterization of the binding of [(125)I]-human prolactin releasing peptide (PrRP) to GPR10, a novel G protein coupled receptor. *Br J Pharmacol*.

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

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