



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## PEN (rat)

Cat. No.:	HY-P2277		
CAS No.:	569364-13-2		
Molecular Formula:	C <sub>102</sub> H <sub>169</sub> N <sub>27</sub> O <sub>33</sub>		
Molecular Weight:	2301.59	AVDQDLGPEVPPENVLGALLRV	
Sequence:	Ala-Val-Asp-Gln-Asp-Leu-Gly-Pro-Glu-Val-Pro-Pro-Glu-Asn-Val-Leu-Gly-Ala-Leu-Leu-Arg-Val		
Sequence Shortening:	AVDQDLGPEVPPENVLGALLRV		
Target:	G protein-coupled Bile Acid Receptor 1		
Pathway:	GPCR/G Protein		
Storage:	Sealed storage, away from moisture		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 50 mg/mL (21.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.4345 mL	2.1724 mL	4.3448 mL
	5 mM	0.0869 mL	0.4345 mL	0.8690 mL
	10 mM	0.0434 mL	0.2172 mL	0.4345 mL

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

## BIOLOGICAL ACTIVITY

### Description

PEN (rat), one of the most abundant hypothalamic neuropeptide and derived from the proprotein ProSAAS, is an endogenous ligand of GPR83<sup>[1]</sup>.

### In Vitro

Mouse PEN (mPEN) and rat PEN (rPEN) only differ by one residue at the N-terminal end, whereas human PEN (hPEN) is more divergent and has the sequence PEG instead of PEN<sup>[2]</sup>.  
 PEN binds and activates a GPCR in the brain<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Seshat M Mack, et al. Neuropeptide PEN and Its Receptor GPR83: Distribution, Signaling, and Regulation. ACS Chem Neurosci. 2019 Apr 17;10(4):1884-1891.

[2]. Ivone Gomes, et al. Identification of GPR83 as the receptor for the neuroendocrine peptide PEN. Sci Signal. 2016 Apr 26;9(425):ra43.

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

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