Product Data Sheet

Product Name: PEN (human) TFA
Cat. No.: GC81433

Chemical Properties

Cas. No.			
Formula	$C_{97}H_{159}N_{27}O_{32}{\cdot}xC_2HF_3O_2$	M.Wt	2215.46
Solubility		Storage	Sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Ala-Ala-Asp-His-Asp-Val-Gly-Ser-Glu-
Leu-Pro-Pro-Glu-Gly-Val-Leu-Gly-Ala-
Leu-Leu-Arg-Val (TFA salt)

Background

PEN (human) TFA, one of the most abundant hypothalamic neuropeptide and derived from the proprotein ProSAAS, is an endogenous ligand of GPR83 [1].

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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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[2].

References:

[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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