

Apraglutide

Cat. No.:	HY-P1714
CAS No.:	1295353-98-8
Molecular Formula:	C ₁₇₂ H ₂₆₃ N ₄₃ O ₅₂
Molecular Weight:	3765.25
Sequence:	His-Gly-Asp-Gly-Ser-Phe-Ser-Asp-Glu-{Nle}-{d-Phe}-Thr-Ile-Leu-Asp-Leu-Leu-Ala-Ala-A rg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp-NH ₂
Sequence Shortening:	HGDGSFSDE-{Nle}-{d-Phe}-TILDLLAARDFINWLIQTKITD-NH ₂
Target:	GLP Receptor
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)

HGDGSFSDE-{Nle}-{d-Phe}-TILDLLAARDFINWLIQTKITD-NH₂

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (26.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	0.2656 mL	1.3279 mL	2.6559 mL	
		5 mM	0.0531 mL	0.2656 mL	0.5312 mL	
		10 mM	0.0266 mL	0.1328 mL	0.2656 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	Apraglutide (FE 203799), a synthetic 33-amino-acid peptide and a long-acting GLP-2 analogue, enhances adaptation and linear intestinal growth in a neonatal piglet model of short bowel syndrome with total resection of the ileum ^[1] .	
In Vivo	Apraglutide (FE 203799; 5 mg/kg/dose, subcutaneously, twice on days 0 and 4 postsurgery) treated piglets are healthy, have significant lower fecal fat and energy losses and exhibit intestinal lengthening, greater small-intestinal weight, longer villus height, and greater crypt depth on day 7 ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	NewbornDuroc piglets, 2–5 days old and weighing between 2-2.6 kg ^[1] .
	Dosage:	5 mg/kg/dose.

Administration:	Subcutaneously, twice on days 0 and 4 postsurgery.
Result:	On day 7, treated piglets were healthy, had significant lower fecal fat and energy losses and exhibited intestinal lengthening, greater small-intestinal weight, longer villus height, and greater crypt depth.

REFERENCES

[1]. Slim GM, et al. Novel Long-Acting GLP-2 Analogue, FE 203799 (Apraglutide), Enhances Adaptation and Linear Intestinal Growth in a Neonatal Piglet Model of Short Bowel Syndrome with Total Resection of the Ileum. JPEN J Parenter Enteral Nutr. 2019 Jan 6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA