

Bulevirtide

Cat. No.:	HY-P3465
CAS No.:	2012558-47-1
Molecular Formula:	C ₂₃₄ H ₃₂₉ N ₆₅ O ₇₁
Molecular Weight:	5398.86
Sequence:	{Myr}-Gly-Thr-Asn-Leu-Ser-Val-Pro-Asn-Pro-Leu-Gly-Phe-Phe-Pro-Asp-His-Gln-Leu-Asp-Pro-Ala-Phe-Gly-Ala-Asn-Ser-Asn-Asn-Pro-Asp-Trp-Asp-Phe-Asn-Pro-Asn-Lys-Asp-His-Trp-Pro-Glu-Ala-Asn-Lys-Val-Gly-NH ₂
Sequence Shortening:	{Myr}-GTNLSVNPPLGFFPDHQLDPAFGANSNNPDWDFNPNKDHWPEANKVG-NH ₂
Target:	HBV
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture and light, under nitrogen 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, under nitrogen)

{Myr}-GTNLSVNPPLGFFPDHQLDPAFGANSNNPDWDFNPNKDHWPEANKVG-NH₂

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (9.26 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	0.1852 mL	0.9261 mL	1.8522 mL
		5 mM	0.0370 mL	0.1852 mL	0.3704 mL
		10 mM	---	---	---
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (0.46 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.46 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Bulevirtide (Myrcludex B) is a NTCP inhibitor, a linear lipopeptide of 47 amino acids. Bulevirtide inhibits HBV and HDV entry into liver cells, blocks HBV infection in hepatocytes, and participates in HBV transcriptional suppression. Bulevirtide can be used in HDV infection and compensated cirrhosis research ^{[1][2]} .
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REFERENCES

[1]. Masetti C, et al. Bulevirtide for treatment of patients with HDV infection and compensated cirrhosis: A (huge?) step in the right direction. Liver Int. 2021 Jul;41(7):1441-1442.

[2]. Cheng D, et al. Clinical effects of NTCP-inhibitor myrcludex B. J Viral Hepat. 2021 Jun;28(6):852-858.

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

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