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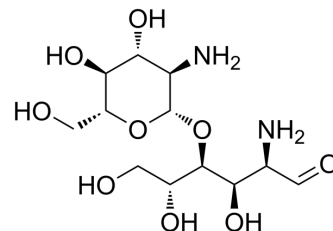
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Chitobiose

Cat. No.:	HY-N7697F
CAS No.:	577-76-4
Molecular Formula:	C ₁₂ H ₂₄ N ₂ O ₉
Molecular Weight:	340.33
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chitobiose, a chitosan oligosaccharide, is a dimer of β -1,4-linked glucosamine units ^[1] . Chitobiose has orally activity and high antioxidant activity ^[2] .			
In Vivo	Chitobiose (30, 100, 300 mg/kg; p.o., single) can enters the circulatory system when given orally ^[2] . Pharmacokinetic Parameters of Chitobiose in Wistar strain male rats ^[2] .			
		PO (30 mg/kg)	PO (100 mg/kg)	PO (300 mg/kg)
	T _{max} (h)	0.9	1.0	1.8
	Cp _{max} (μ g/mL)	1.1	4.4	6.9
	AUC _{0-4h} (μ g·h/mL)	2.5	9.0	17.6
	AUMC _{0-4h} (μ g·h ² /mL)	4.0	13.2	35.6
	MRT (h)	1.6	1.5	1.6
	MAT (h)	1.1	1.0	1.2
	k _a (h ⁻¹)	0.95	0.99	0.96
	F _{1-4h} (%)	1.8	2.0	1.3
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
Animal Model:	Wistar strain male rats (7 weeks, 165-185 g) ^[2]			
Dosage:	30, 100, 300 mg/kg			

Administration:	p.o., single (Pharmacokinetics analysis)
Result:	Entered the circulatory system when given orally.

REFERENCES

[1]. Zhao Q, et al. Chitoheptaose Promotes Heart Rehabilitation in a Rat Myocarditis Model by Improving Antioxidant, Anti-Inflammatory, and Antiapoptotic Properties. *Oxid Med Cell Longev*. 2020;2020:2394704. Published 2020 Apr 11.

[2]. Chen AS, Taguchi T, Okamoto H, et al. Pharmacokinetics of chitobiose and chitotriose administered intravenously or orally to rats. *Biol Pharm Bull*. 2005;28(3):545-548.

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

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