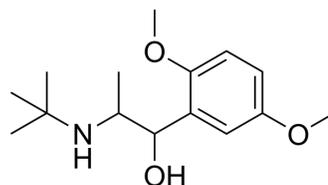


Butaxamine

Cat. No.:	HY-119868
CAS No.:	2922-20-5
Molecular Formula:	C ₁₅ H ₂₅ NO ₃
Molecular Weight:	267.36
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Butaxamine (Butoxamin) is a potent, selective and orally active β 2-adrenoceptor antagonist. Butaxamine shows antiosteoporotic activity ^[1] .	
IC₅₀ & Target	β 2 adrenoceptor	
In Vivo	Butaxamine (0.1, 1, 10 mg/kg; p.o.; once daily for 12 weeks) increases bone mass indices and biomechanical parameters of strength and toughness in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Seven-week-old male SHR/lzm and WKY/lzm rats ^[1]
	Dosage:	0.1, 1, 10 mg/kg
	Administration:	P.o.; once daily for 12 weeks
	Result:	Prevented a decrease in bone mass and an increase in biomechanical fragility developing in SHR, suppressed both a decrease in bone formation and an increase in bone resorption in SHR.

REFERENCES

[1]. Arai M, et al. Dose effects of butoxamine, a selective β 2-adrenoceptor antagonist, on bone metabolism in spontaneously hypertensive rat. Eur J Pharmacol. 2013 Feb 15;701(1-3):7-13.

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

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