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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

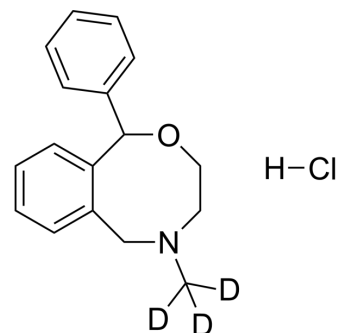
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Nefopam-d₃ hydrochloride

Cat. No.:	HY-B1057S		
CAS No.:	1346603-30-2		
Molecular Formula:	C ₁₇ H ₁₇ D ₃ ClNO		
Molecular Weight:	292.82		
Target:	β-catenin		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Nefopam-d ₃ (hydrochloride) is the deuterium labeled Nefopam hydrochloride. Nefopam hydrochloride (Fenazoxine hydrochloride) is a centrally-acting but non-opioid analgesic drug, for the relief of moderate to severe pain. Nefopam hydrochloride targets β-catenin protein level in mesenchymal cells in-vitro and in-vivo[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Kim KH, et al. Rediscovery of nefopam for the treatment of neuropathic pain. *Korean J Pain*. 2014 Apr;27(2):103-11.
- [3]. Poon R, et al. A high throughput screen identifies Nefopam as targeting cell proliferation in β-catenin driven neoplastic and reactive fibroproliferative disorders. *PLoS One*. 2012;7(5):e37940.
- [4]. Baht GS, et al. Pharmacologically targeting beta-catenin for NF1 associated deficiencies in fracture repair. *Bone*. 2017 May;98:31-36.

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