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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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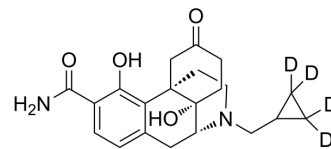
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Samidorphan-d₄

Cat. No.:	HY-123689S
Molecular Formula:	C ₂₁ H ₂₂ D ₄ N ₂ O ₄
Molecular Weight:	374.47
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Samidorphan-d₄ is the deuterium labeled Samidorphan (HY-123689). Samidorphan (ALKS-33) is an orally active opioid system modulator that has a high affinity for binding with μ -opioid, κ -opioid, and δ -opioid receptors. Samidorphan acts as an antagonist at μ -opioid receptors and acts as a partial agonist at κ -opioid and δ -opioid receptors. Samidorphan primarily acts as an opioid receptor antagonist in vivo^[1].

REFERENCES

- [1]. McElroy SL, et al. A placebo-controlled pilot study of the novel opioid receptor antagonist ALKS-33 in binge eating disorder. *Int J Eat Disord*. 2013 Apr;46(3):239-45.
- [2]. Mark S. Todtenkopf, et al. Buprenorphine in Combination with Samidorphan (ALKS 33) Results in Antidepressive-Like Effects in Two Distinct Rat Models. *Eur Neuropsychopharmacol*. 2014;24a(Suppl 2):S366.
- [3]. Rehan ST, et al. Samidorphan/olanzapine combination therapy for schizophrenia: Efficacy, tolerance and adverse outcomes of regimen, evidence-based review of clinical trials. *Ann Med Surg (Lond)*. 2022 Jun 30;79:104115.
- [4]. Russak, et al. Impact of deuterium substitution on the pharmacokinetics of pharmaceuticals. *Annals of Pharmacotherapy* 53.2 (2019): 211-236.

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

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