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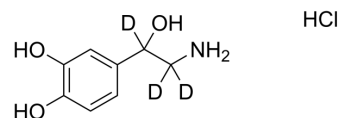
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DL-Norepinephrine-d₃ hydrochloride

Cat. No.:	HY-N7142S1
CAS No.:	1392208-07-9
Molecular Formula:	C ₈ H ₉ D ₃ ClNO ₃
Molecular Weight:	208.66
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	DL-Norepinephrine-d ₃ (hydrochloride) is the deuterium labeled DL-Norepinephrine hydrochloride[1]. DL-Norepinephrine hydrochloride is a synthetic phenylethylamine that mimics the sympathomimetic actions of the endogenous norepinephrine. DL-Norepinephrine hydrochloride is a neurotransmitter targets α1 and β1 adrenoceptors, has an increasing effect on subendocardial oxygen tension[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 Feb;53(2):211-216.
- [2]. Matsuda H, et al. Effects of nitroglycerin, adenosine, noradrenaline, and isoproterenol on the myocardial oxygen tension. Jpn Heart J. 1979 Nov;20(6):867-79.

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

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