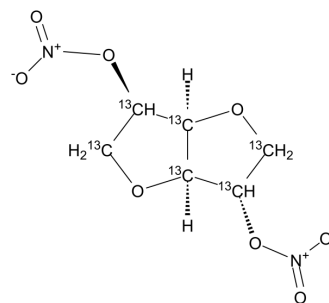


Isosorbide dinitrate-¹³C₆

Cat. No.:	HY-B1409S
Molecular Formula:	¹³ C ₆ H ₈ N ₂ O ₈
Molecular Weight:	242.09
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isosorbide dinitrate- ¹³ C ₆ is the ¹³ C labeled Isosorbide dinitrate[1]. Isosorbide dinitrate (ISDN) is an NO donor that prevents LV remodeling and degradation of cardiac function following myocardial infarction (MI)[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]. Wang X, et al. Intratracheal administration of isosorbide dinitrate improves pulmonary artery pressure and ventricular remodeling in a rat model of heart failure following myocardial infarction. *Exp Ther Med*. 2017 Aug;14(2):1399-1408.
- [3]. Zhao X, et al. Cardioprotective Effect of Isosorbide Dinitrate Postconditioning Against Rat Myocardial Ischemia-Reperfusion Injury In Vivo. *Med Sci Monit*. 2019 Mar 225:1629-1636.

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

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