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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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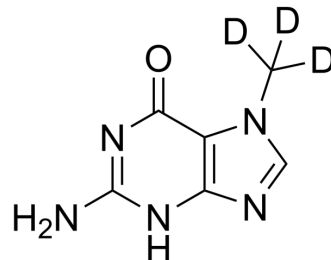
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7-Methylguanine-d3

Cat. No.:	HY-113352S
CAS No.:	17829-03-7
Molecular Formula:	C ₆ H ₄ D ₃ N ₅ O
Molecular Weight:	168.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	7-Methylguanine-d ₃ is the deuterium labeled 7-Methylguanine[1]. 7-Methylguanine is a metabolite of DNA methylation. It can be generated by methylating agents, and used as a probe of protein–DNA interactions and a key component of DNA sequencing method[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]. Lee S, et al. Synthesis and structure of duplex DNA containing the genotoxic nucleobase lesion N7-methylguanine. *J Am Chem Soc*. 2008 Sep 3;130(35):11570-1.

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

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