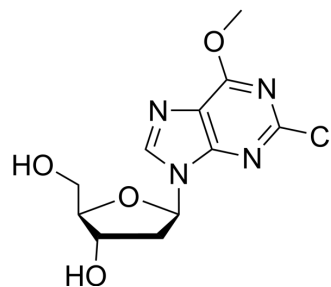


2-Chloro-2'-deoxy-6-O-methylinosine

Cat. No.:	HY-154393
CAS No.:	146196-07-8
Molecular Formula:	C ₁₁ H ₁₃ ClN ₄ O ₄
Molecular Weight:	300.7
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2-Chloro-2'-deoxy-6-O-methylinosine is a hypoxanthine analog. Hypoxanthine is a kind of purine base mainly present in muscle tissue. And it is a metabolite produced by purine oxidase acting on xanthine. Hypoxanthine has typical anti-inflammatory effects and is a potential endogenous poly(ADP-ribose) polymerase (PARP) inhibitor. It is cytoprotective by inhibiting PARP activity, inhibiting peroxynitrite-induced mitochondrial depolarization and secondary superoxide production. Hypoxanthine can also be used as an indicator of hypoxia^{[1][2]}.

REFERENCES

- [1]. Virág L, Szabó C. Purines inhibit poly(ADP-ribose) polymerase activation and modulate oxidant-induced cell death. *FASEB J.* 2001 Jan;15(1):99-107.
- [2]. Saugstad OD. Hypoxanthine as an indicator of hypoxia: its role in health and disease through free radical production. *Pediatr Res.* 1988 Feb;23(2):143-50.

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

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