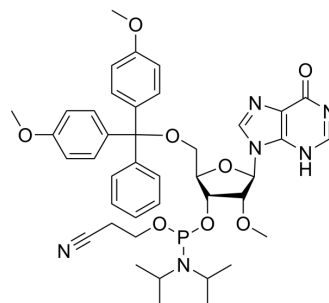


## 2'-O-Methyl-5'-O-dmt-inosine-3'-CE-phosphoramidite

Cat. No.:	HY-W392836
CAS No.:	128219-85-2
Molecular Formula:	C <sub>41</sub> H <sub>49</sub> N <sub>6</sub> O <sub>8</sub> P
Molecular Weight:	784.84
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'-O-Methyl-5'-O-dmt-inosine-3'-CE-phosphoramidite 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<sup>[1][2]</sup>.

### 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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