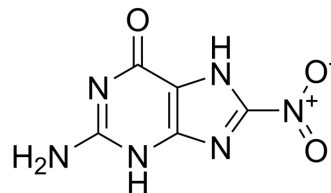


8-Nitroguanine

Cat. No.:	HY-116582
CAS No.:	168701-80-2
Molecular Formula:	C ₅ H ₄ N ₆ O ₃
Molecular Weight:	196.12
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8-Nitroguanine, a product of nitrative DNA damage caused by reactive nitrogen species, is a potential biomarker for progression of malignant fibrous histiocytoma ^{[1][2]} .
In Vitro	Repeated <i>Opisthorchis viverrini</i> (OV) infections increased 8-Nitroguanine formation and iNOS expression in the epithelium of bile ducts compared with a single infection ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hiroshi Ohshima, et al. 8-nitroguanine, a product of nitrative DNA damage caused by reactive nitrogen species: formation, occurrence, and implications in inflammation and carcinogenesis. *Antioxid Redox Signal*. 2006 May-Jun;8(5-6):1033-45.
- [2]. Yoko Hoki, et al. 8-Nitroguanine as a potential biomarker for progression of malignant fibrous histiocytoma, a model of inflammation-related cancer. *Oncol Rep*. 2007 Nov;18(5):1165-9.
- [3]. Yusuke Hiraku, et al. Formation of 8-nitroguanine, a nitrative DNA lesion, in inflammation-related carcinogenesis and its significance. *Environ Health Prev Med*. 2010 Mar;15(2):63-72.

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

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