



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

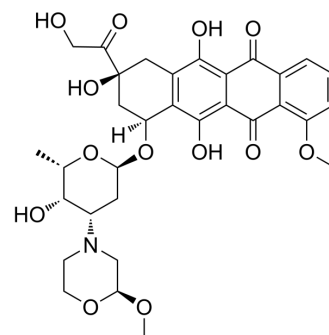
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Nemorubicin (GMP)

<b>Cat. No.:</b>	HY-15794G
<b>CAS No.:</b>	108852-90-0
<b>Molecular Formula:</b>	C <sub>32</sub> H <sub>37</sub> NO <sub>13</sub>
<b>Molecular Weight:</b>	643.64
<b>Target:</b>	G-quadruplex
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Nemorubicin (Methoxymorpholinyl doxorubicin) GMP is a GMP-class Nemorubicin (HY-15794). Nemorubicin is a Doxorubicin derivative with potent antitumor activity. Nemorubicin is highly cytotoxic to a variety of tumor cell lines presenting a multidrug-resistant phenotype. Nemorubicin not only intercalate into the duplex DNA, but also result in significant ligands for G-quadruplex DNA segments, stabilizing their structure. Nemorubicin requires an intact nucleotide excision repair (NER) system to exert its activity<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. Quintieri L, et al. Formation and antitumor activity of PNU-159682, a major metabolite of nemorubicin in human liver microsomes. *Clin Cancer Res*. 2005 Feb 15;11(4):1608-17.
- [2]. Quintieri L, et al. In vitro hepatic conversion of the anticancer agent nemorubicin to its active metabolite PNU-159682 in mice, rats and dogs: a comparison with human liver microsomes. *Biochem Pharmacol*. 2008 Sep 15;76(6):784-95.
- [3]. Sabatino MA, et al. Down-regulation of the nucleotide excision repair gene XPG as a new mechanism of drug resistance in human and murine cancer cells. *Mol Cancer*. 2010 Sep 24;9:259.
- [4]. Lu H, et al. Potentiation of methoxymorpholinyl doxorubicin antitumor activity by P450 3A4 gene transfer. *Cancer Gene Ther*. 2009 May;16(5):393-404.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA