



# 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

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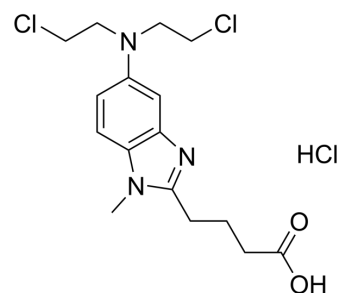
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## Bendamustine hydrochloride (Standard)

<b>Cat. No.:</b>	HY-B0077R
<b>CAS No.:</b>	3543-75-7
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>22</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	394.72
<b>Target:</b>	Apoptosis; DNA Alkylator/Crosslinker
<b>Pathway:</b>	Apoptosis; Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Bendamustine (hydrochloride) (Standard) is the analytical standard of Bendamustine (hydrochloride). This product is intended for research and analytical applications. Bendamustine hydrochloride (SDX-105), a purine analogue, is a DNA cross-linking agent. Bendamustine hydrochloride activates DNA-damage stress response and apoptosis. Bendamustine hydrochloride has potent alkylating, anticancer and antimetabolite properties <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	DNA Alkylator/Crosslinker <sup>[1]</sup>

### REFERENCES

- [1]. Leoni LM, et al. Bendamustine (Treanda) displays a distinct pattern of cytotoxicity and unique mechanistic features compared with other alkylating agents. *Clin Cancer Res.* 2008 Jan 1;14(1):309-17.
- [2]. Cives M, et al. Bendamustine overcomes resistance to melphalan in myeloma cell lines by inducing cell death through mitotic catastrophe. *Cell Signal.* 2013 May;25(5):1108-17.
- [3]. Ackler S, et al. Navitoclax (ABT-263) and bendamustine ± rituximab induce enhanced killing of non-Hodgkin's lymphoma tumours in vivo. *Br J Pharmacol.* 2012 Oct;167(4):881-91.

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

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