



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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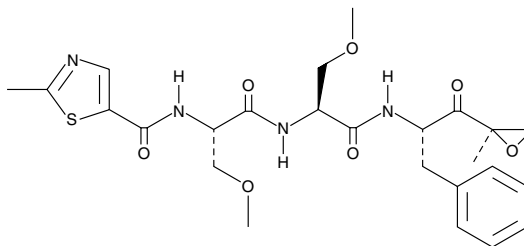
# Product Information



## ONX 0912

Item No. 16269

**CAS Registry No.:** 935888-69-0  
**Formal Name:** O-methyl-N-[(2-methyl-5-thiazolyl) carbonyl]-L-seryl-O-methyl-N-[(1S)-2-[(2R)-2-methyl-2-oxiranyl]-2-oxo-1-(phenylmethyl)ethyl]-L-serinamide  
**Synonyms:** Oprozomib, PR-047  
**MF:** C<sub>25</sub>H<sub>32</sub>N<sub>4</sub>O<sub>7</sub>S  
**FW:** 532.6  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 257 nm



### Laboratory Procedures

For long term storage, we suggest that ONX 0912 be stored as supplied at -20°C. It should be stable for at least two years.

ONX 0912 is supplied as a crystalline solid. A stock solution may be made by dissolving the ONX 0912 in the solvent of choice. ONX 0912 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ONX 0912 in these solvents is approximately 1, 5, and 10 mg/ml, respectively.

ONX 0912 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ONX 0912 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ONX 0912 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

ONX 0912 is an orally bioavailable proteasome inhibitor.<sup>1</sup> It potently targets the chymotrypsin-like activity of the 20S proteasome subunits β5 and LMP7 (IC<sub>50</sub>s = 36 and 82 nM, respectively).<sup>1</sup> ONX 0912 inhibits the growth of multiple myeloma cells at nanomolar concentrations while not decreasing the viability of normal peripheral blood mononuclear cells at 1 μM.<sup>2</sup> It blocks the growth of xenografted human multiple myeloma cells in mice when given orally.<sup>2</sup> ONX 0912 has potential applications in certain types of cancer as well as other diseases that require proteasome activity.<sup>3-6</sup>

### References

1. Zhou, H.-J., Aujay, M.A., Bennett, M.K., *et al.* *J. Med. Chem.* **52**(9), 3028-3038 (2009).
2. Chauhan, D., Singh, A.V., Aujay, M., *et al.* *Blood* **116**(23), 4906-4915 (2010).
3. Mato, A.R., Feldman, T., and Goy, A. *Oncologist* **17**(5), 694-707 (2012).
4. Niewerth, D., Franke, N.E., Jansen, G., *et al.* *Haematologica* **98**(12), 1896-1904 (2013).
5. Gupta, S., Wang, L., Anderl, J., *et al.* *Hum. Mutat.* **34**(8), 1085-1093 (2013).
6. Dou, Q.P. and Zonder, J.A. *Curr. Cancer Drug Targets* **14**(6), 517-536 (2014).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16269](http://www.caymanchem.com/catalog/16269)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

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