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

Syonyms: Oprozomib, PR-047
MF: C₃₂H₃₂N₄O₇S
FW: 552.6
Purity: ≥98%
Stability: ≥98%
Supplied as: A crystalline solid
UV/Vis.: λmax: 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. It potently targets the chymotrypsin-like activity of the 20S
proteasome subunits β5 and LMP7 (IC₅₀s = 36 and 82 nM, respectively). 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. It blocks the growth of xenografted human multiple myeloma cells in mice when given orally. ONX 0912 has
potential applications in certain types of cancer as well as other diseases that require proteasome activity.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/16269

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