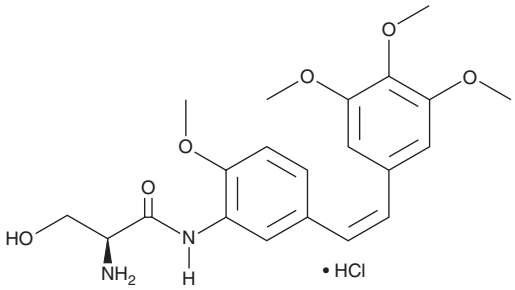
PRODUCT INFORMATION

Ombrabulin (hydrochloride)

Item No. 34897

CAS Registry No.:	253426-24-3
Formal Name:	2-amino-3-hydroxy-N-[2-methoxy-5-[(1Z)-2-(3,4,5-trimethoxyphenyl) ethenyl]phenyl]-propanamide, monohydrochloride
Synonyms:	AC-7700, AVE-8062, CS 39-L-Ser
MF:	$C_{21}H_{26}N_2O_6$ • HCl
FW:	438.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 292 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ombrabulin (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the ombrabulin (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Ombrabulin (hydrochloride) is soluble in ethanol and DMSO.

Description

Ombrabulin is a tubulin polymerization inhibitor (IC_{50} = 11.3 µM) and tumor vascular disrupting agent.[1,2] It induces cell cycle arrest at the G_2/M phase and apoptosis in HEY A8 ovarian cancer and mouse mesenteric endothelial cells.[2] Ombrabulin (30 mg/kg) reduces tumor growth and induces tumor necrosis in a HEY A8 mouse xenograft model.

References

1. Monk, K., Siles, R., Hadimani, M.B., *et al.* Design, synthesis, and biological evaluation of combretastatin nitrogen-containing derivatives as inhibitors of tubulin assembly and vascular disrupting agents. *Bioorg. Med. Chem.* **14(9)**, 3231-3244 (2006).
2. Kim, T.J., Ravoori, M., Landen, C.N., *et al.* Antitumor and antivascular effects of AVE8062 in ovarian carcinoma. *Cancer Res.* **67(19)**, 9337-9345 (2007).

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