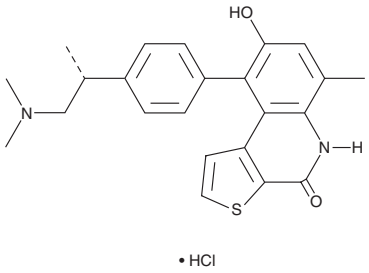
PRODUCT INFORMATION

OTS964 (hydrochloride)

Item No. 17052

CAS Registry No.:	1338545-07-5
Formal Name:	9-[4-[(1R)-2-(dimethylamino)-1-methylethyl] phenyl]-8-hydroxy-6-methyl-thieno[2,3-c] quinolin-4(5H)-one, monohydrochloride
MF:	$C_{23}H_{24}N_2O_2S \bullet HCl$
FW:	429.0
Purity:	≥98%
UV/Vis.:	λ_{max}: 220, 290, 351 nm
Supplied as:	A crystalline 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

OTS964 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the OTS964 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. OTS964 (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of OTS964 (hydrochloride) in these solvents is approximately 30 mg/ml.

OTS964 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, OTS964 (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. OTS964 (hydrochloride) has a solubility of approximately 0.25 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

OTS964 is an inhibitor of lymphokine-activated killer T cell-originated protein kinase (TOPK; IC_{50} = 28 nM).[1] It specifically blocks cytokinesis, leading to apoptosis, in a broad range of cancer cells.[1,2] OTS964 induces apoptosis of human lung cancer cells in mouse xenografts.[1]

References

1. Matsuo, Y., Park, J.H., Miyamoto, T., *et al.* TOPK inhibitor induces complete tumor regression in xenograft models of human cancer through inhibition of cytokinesis. *Sci. Transl. Med.* **6(259)**, 259ra145 (2014).
2. Ikeda, Y., Park, J.H., Miyamoto, T., *et al.* T-LAK cell-originated protein kinase (TOPK) as a prognostic factor and a potential therapeutic target in ovarian cancer. *Clin. Cancer. Res.* (2016).

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