PRODUCT INFORMATION

STF-62247
Item No. 13084

CAS Registry No.: 315702-99-9
Formal Name: N-(3-methylphenyl)-4-(4-pyridinyl)-2-thiazolamine
MF: C_{15}H_{13}N_{3}S
FW: 267.3
Purity: ≥98%
UV/Vis.: λ_{max} 246, 296 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

STF-62247 is supplied as a crystalline solid. A stock solution may be made by dissolving the STF-62247 in the solvent of choice, which should be purged with an inert gas. STF-62247 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of STF-62247 in these solvents is approximately 25 mg/ml.

STF-62247 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, STF-62247 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. STF-62247 has a solubility of approximately 0.2 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

STF-62247 is a small molecule agonist that induces autophagy and selectively causes lethality in renal cell carcinoma (RCC) cells that have lost the von Hippel-Lindau (VHL) tumor suppressor activity (IC_{50} = 625 nM).\(^1\) It significantly reduces the growth rate of tumors formed from VHL-deficient cells in mice.\(^1\)\(^-\)\(^3\) STF-62247 induces cytotoxicity in VHL-positive RCC cells only at higher concentrations (IC_{50} = 16 μM).\(^1\)

References