



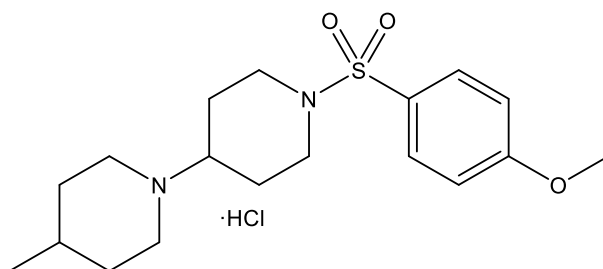
Catalog # 10-4890

TASIN-1

CAS# 1678515-13-3

1-[1-(4-Methoxyphenyl)sulfonylpiperidin-4-yl]-4-methylpiperidine hydrochloride

Lot # FBA7090



TASIN-1 selectively induces apoptosis in cells with truncations in the adenomatous polyposis coli (APC) gene (but not normal cells or wild type cancer cells), an important multifunctional tumor suppressor gene.¹ IC₅₀ = 70nM for DLD1 cell line. It inhibited cancer cell growth in human tumor xenografts (DLD1 and HT29 tumors) and a genetically engineered mouse model (*CPC;Apc*) of colorectal cancer. TASIN-1 induces ER stress-dependent JNK activation with ROS production and AKT inhibition via cholesterol depletion.²

- 1) Zhang *et al.* (2016), *Selective targeting of mutant adenomatous polyposis coli (APC) in colorectal cancer*; Sci. Transl. Med., **8** 361ra140
- 2) Zhang *et al.* (2016), *Cholesterol Depletion by TASIN-1 Induces Apoptotic Cell Death through the ER Stress/ROS/JNK Signaling in Colon Cancer Cells*; Mol. Cancer Ther., **17** 943

PHYSICAL DATA

Molecular Weight:	388.95
Molecular Formula:	C ₁₈ H ₂₈ N ₂ O ₃ S·HCl
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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