

PRODUCT INFORMATION



TASIN-1

Item No. 21155

CAS Registry No.: 792927-06-1
Formal Name: 1'-[(4-methoxyphenyl)sulfonyl]-4-methyl-1,4'-bipiperidine

MF: C₁₈H₂₈N₂O₃S

FW: 352.5

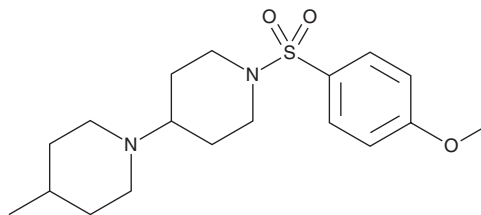
Purity: ≥98%

UV/Vis.: λ_{max}: 241 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

TASIN-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the TASIN-1 in the solvent of choice. TASIN-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of TASIN-1 in these solvents is approximately 25, 15, and 30 mg/ml, respectively.

TASIN-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TASIN-1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. TASIN-1 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

TASIN-1 is a small molecule inhibitor that specifically kills cells with adenomatous polyposis coli (APC) truncations (IC₅₀ = 70 nM) but spares cells with wild-type APC.¹ TASIN-1 is effective *in vivo*, inhibiting tumor growth of colorectal cancer (CRC) cells with truncated APC, but not wild-type CRC cells, in a mouse xenograft model.¹ TASIN-1 decreases cholesterol biosynthesis in APC-truncated cells but not in wild-type APC cells.¹

Reference

1. Zhang, L., Theodoropoulos, P.C., Eskiocak, U., *et al.* Selective targeting of mutant adenomatous polyposis coli (APC) in colorectal cancer. *Sci. Transl. Med.* **8(361)**, 361ra140 (2016).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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