

TASIN-1, Induces apoptosis in cells with APC truncations

Catalog	Unit
TBI4890-5MG	5 mg
TBI4890-25MG	25 mg

Product Details

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

Molecular Formula: C₁₈H₂₈N₂O₃S·HCl

Formula Weight: 389.00

CAS Number: 1678515-13-3

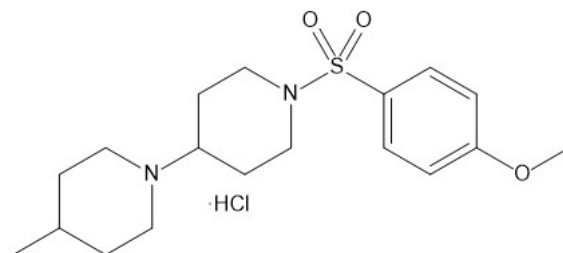
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Induces apoptosis in cells with APC truncations

Functions

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. 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.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.