

Product Data Sheet

Product Name: A011
Cat. No.: GC91113

Chemical Properties

Cas. No.

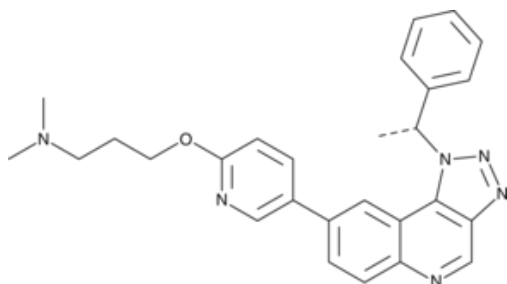
Formula $C_{27}H_{28}N_6O$ M.Wt 452.6

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): Slightly
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

A011 is an inhibitor of ataxia-telangiectasia mutated (ATM) kinase ($IC_{50} = 1 \text{ nM}$).¹ It is selective for ATM over a panel of 408 additional kinases at $10 \mu\text{M}$. A011 inhibits the growth of SW620 and HCT116 colorectal cancer cells (IC_{50} s = 0.14 and $0.91 \mu\text{M}$, respectively) and enhances cell death induced by DNA topoisomerase I inhibitor irinotecan in the same cells when used at concentrations of 10 , 30 , and 100 nM . It also increases irradiation-induced cell death in SW620 cells. *In vivo*, A011 (5 mg/kg) increases irinotecan-induced reductions in tumor growth in an SW620 mouse xenograft model.

Caution: Product has not been fully validated for medical applications. For research use only.

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