

Product Data Sheet

Product Name: QN523
Cat. No.: GC52057

Chemical Properties

Cas. No. 878581-60-3

SMILES O=C(C1=NC=CN=C1)NC2=CC=CC3=C2N=CC=C3

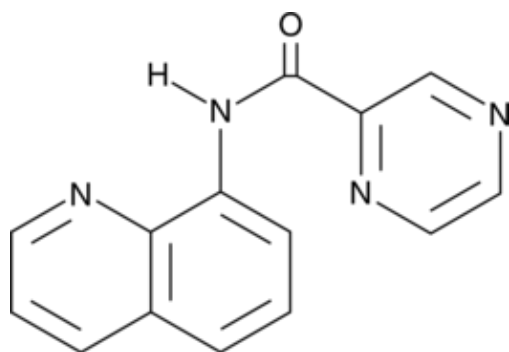
Formula C₁₄H₁₀N₄O M.Wt 250.3

Solubility DMF: 5 mg/ml, DMSO: 2 mg/ml Storage -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 sizes: ship with RT, or blue ice upon request.

Structure



Background

QN523 is an anticancer agent.¹ It is cytotoxic to MiaPaCa-2, PANC-1, and BxPC-3 pancreatic cancer cells (IC₅₀s = 0.11, 0.5, and 3.3 μM, respectively). QN523 (0.5 μM) induces cell cycle arrest at the S phase in MiaPaCa-2 cells. It increases levels of the endoplasmic reticulum (ER) stress markers glucose-regulated protein 78 kDa (GRP78), DNA damage inducible transcript 3 (DDIT3), activating transcription factor 3 (ATF3), and growth differentiation factor 15 (GDF15), as well as the autophagy markers WD repeat domain phosphoinositide-interacting protein 1 (WIPI1), GABA_A receptor-associated protein-like 1 (GABARAPL1), and LC3-II in MiaPaCa-2 cells in a concentration-dependent manner. QN523 reduces tumor volume in a MiaPaCa-2 mouse xenograft model.

1. Kuang, Y., Ye, N., Kyani, A., et al. Induction of genes implicated in stress response and autophagy

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

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by a novel quinolin-8-yl-nicotinamide QN523 in pancreatic cancerJ. Med. Chem.65(8)6133-6156(2022)

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