

Product Data Sheet

Product Name: PK11007

Cat. No.: GC32946

Chemical Properties

Cas. No. 38275-34-2

SMILES O=C(C1=NC(S(=O)(C)=O)=NC=C1Cl)O

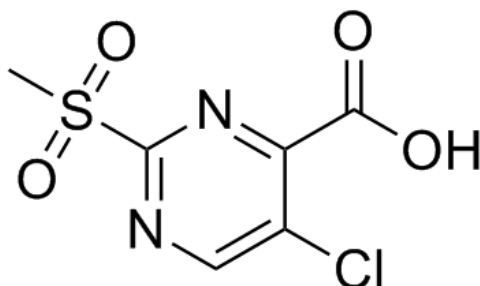
Formula C6H5ClN2O4S M.Wt 236.63

Solubility DMSO : 100 mg/mL (422.60 mM) 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

PK11007 is a p53 targeting compound, has anti-tumor activities through activation of unstable p53.

PK11007 (15-30 µM) reduces the viability of mutant p53 cell lines MKN1 (V143A), HUH-7 (Y220C), NUGC-3 (Y220C), and SW480 (R273H/P309S). PK11007 also shows inhibitory activities against the p53 wt cancer cell lines HUH-6 and NUGC-4, as well as the fibroblast cell line WI-38 only at high concentrations (60 and 120 µM). PK11007 increases levels of p53 target genes and activates the unfolded protein response pathway. PK11007 also increases p53 activity in HUH-6 and NUGC-4

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

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cells. PK11007 induces cell death via caspase-independent pathways. PK11007 (30, 60 μ M) induces reactive oxygen species (ROS) especially in mutant p53 cells[1]. PK11007 inhibits the proliferation of a panel of 17 breast cell lines, with IC50s ranging from 2.3 to 42.2 μ M[2].

[1]. Bauer MR, et al. 2-Sulfonylpyrimidines: Mild alkylating agents with anticancer activity toward p53-compromised cells. *Proc Natl Acad Sci U S A*. 2016 Sep 6;113(36):E5271-80. [2]. Synnott NC, et al. Mutant p53 as a therapeutic target for the treatment of triple-negative breast cancer: Preclinical investigation with the anti-p53 drug, PK11007. *Cancer Lett*. 2018 Feb 1;414:99-106

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