

# PK11007

Catalog No: tcsc0035401



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg



## Specifications

**CAS No:**

38275-34-2

**Formula:**

$C_6H_5ClN_2O_4S$

**Pathway:**

Apoptosis

**Target:**

MDM-2/p53

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 100$  mg/mL (422.60 mM)

**Observed Molecular Weight:**

236.63

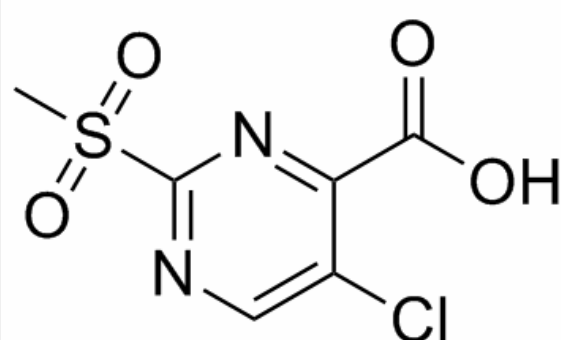
## Product Description

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

IC50 & Target: p53<sup>[1]</sup>

***In Vitro:***

PK11007 (15-30  $\mu$ M) 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  $\mu$ M). 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 cells. PK11007 induces cell death via caspase-independent pathways. PK11007 (30, 60  $\mu$ M) induces reactive oxygen species (ROS) especially in mutant p53 cells<sup>[1]</sup>. PK11007 inhibits the proliferation of a panel of 17 breast cell lines, with IC<sub>50</sub>s ranging from 2.3 to 42.2  $\mu$ M<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!