For Research Use Only KW-2478



Catalog Number: CM04650

产品信息	Catalog Number: CM04650 分子量: 574.66 CAS号: 溶解度: 819812-04-9 H20:<1 mg/mL,Ethanol:3 mg/mL 分子式: (5.22 mM),DMS0:106 mg/mL 「(5.22 mM),DMS0:106 mg/mL C30H42N209 (184.5 mM) 「(5.22 mM),DMS0:106 mg/mL 主要靶点: HSP 主要通路: 细胞骨架 代谢 「(3.22 mM),DMS0:106 mg/mL 「(5.22 mM),DMS0:106 mg/mL
靶点活性	HSP90:3.8 nM
体外活性	KW-2478 inhibits the binding of bRD to Hsp90 α with IC50 of 3.8 nM. KW-2478 degradates the Hsp90 client proteins, including FGFR3 and IGF-1R β and c-Raf-1. KW-2478 reduces the level of phosphorylated Erk1/2. KW-2478 induces apoptosis by cleavage of PARP, a substrate of caspase-3 In U266 cells, KW-2478 has Time dependency of antiproliferative activity, consecutive drug exposure for at least 12 hours is necessary to to exert potent antitumor activity. KW-2478 downregulates the translocation products of IgH locus. KW-2478 inhibits the transcription of c-Maf and cyclin D1 genes by mainly suppressing the function of CdK9. [1] KW-2478 inhibits cancer cell growth in all cell lines, with EC50 of 101-252 nM, 81.4-91.4 nM and 120-622 nM for B-cell lymphoma, mantle cell lymphoma and multiple myeloma, respectively. [KW-2478 also shows potent growth inhibitory activity in primary CLL and NHL cells with EC50 of 40-170 nM and 200-400 nM, respectively. [2].
体内活性	KW-2478 suppresses tumor growth and induces the degradation of client proteins in tumors in NCI-H929 s.c. inoculated model at doses of 100 mg/kg or more. KW-2478 reduces both serum M protein and MM tumor burden in the bone marrow in OPM-2/GFP i.v. inoculated mouse model at doses of 100 mg/kg. [1]
细胞实验	To measure the IC50, OPM-2/green fluorescent protein (GFP) cells, KMS-11 cells, OPM-2/GFP and other cells are plated into 96-well plates and treat with KW-2478. After 72 hours of cultivation, cell viability is determined using Cell Proliferation Reagent WST-1. WST reagent is added to the wells, followed by incubation for 4 hours at 37 °C. After that, the absorbance at 450 nm with reference at 650 nm is measured with a microplate spectrophotometer. To examine time dependency of antiproliferative activity of KW-2478, the cells are plated into 96-well V-bottomed plates and treated with KW-2478. After 0 hour and at intervals from 3 to 72 hours at 37 °C, the supernatant is aspirated. After drug-free medium is added to the wells, the supernatant is aspirated again. Finally, drug-free medium is added to the wells, and the plates are further incubated for the remainder of the 72-hour period, followed by measurement of cell viabil(Only for Reference)
描述	KW-2478 is a non-ansamycin HSP90 inhibitor with IC50 of 3.8 nM.
储存	Powder: -20°C for 3 years In solvent: -80°C for 1 year