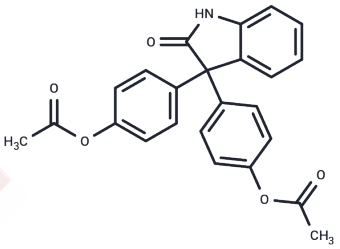
Data Sheet (Cat.No.T7311)

TargetMol

Oxyphenisatin acetate

Chemical Properties



CAS No. : 115-33-3

Formula: C24H19NO5

Molecular Weight: 401.41

Storage: Store at low temperature,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Oxyphenisatin acetate inhibits the growth of the breast cancer cell lines MCF7, T47D, HS578T, and MDA-MB-468.
Targets(IC50)	Autophagy
In vitro	In the estrogen receptor (ER) positive MCF7 and T47D cells, OXY induced TNFα expression and TNFR1 degradation, indicating autocrine receptor-mediated apoptosis in these lines. Lastly, in an MCF7 xenograft model, OXY delivered intraperitoneally inhibited tumor growth, accompanied by phosphorylation of eIF2α and degradation of TNFR1. OXY induces a multifaceted cell starvation response, which ultimately induces programmed cell death[1].
Cell Research	Total RNA was isolated from MCF7 cells treated with 10 μmol/L OXY for 24 h and the microarray procedure performed as described previously using the GeneChip Human U133 plus 2.0 array . Pairwise analysis was performed on control versus treated arrays using a fivefold change cutoff, <0.01 adjusted P-value, GC-RMA normalization with Benjamini–Hochberg false discovery estimation[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (373.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4912 mL	12.4561 mL	24.9122 mL
5 mM	0.4982 mL	2.4912 mL	4.9824 mL
10 mM	0.2491 mL	1.2456 mL	2.4912 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Morrison B L , Mullendore M E , Stockwin L H , et al. Oxyphenisatin acetate (NSC 59687) triggers a cell starvation response leading to autophagy, mitochondrial dysfunction, and autocrine TNFα-mediated apoptosis[J]. Cancer Medicine, 2013:n/a-n/a.

Uddin M K , Reignier S G , Coulter T , et al. Syntheses and antiproliferative evaluation of oxyphenisatin derivatives [J]. Bioorganic & Medicinal Chemistry Letters, 2007, 17(10):2854-2857.

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