

Product Name : Ecteinasidin 770

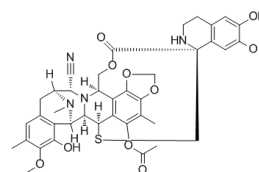
Synonyms : Ecteinasidine 770;Et 770;Et-770;Et770

Cat No. : M10526

CAS Number : 114899-80-8

Molecular Formula : C₄₀H₄₂N₄O₁₀S

Formula Weight : 770.85



Chemical Name : Spiro[6,16-(epithiopropoxymethano)-7,13-imino-12H-1,3-dioxolo[7,8]isoquino[3,2-b][3]benzazocine-20,1'-(2'H)-isoquinoline]-14-carbonitrile, 5-(acetyloxy)-3',4',6,6a,7,13,14,16-octahydro-6',8-dihydroxy-7',9-dimethoxy-4,10,23-trimethyl-19-oxo-, (1'R,6R,6aR,

Description : A tetrahydroisoquinoline alkaloid with potent anticancer activities; shows cytotoxicity against human cell lines HCT116, QG56, and DU145 with IC₅₀ of 0.60, 2.4, and 0.81 nM, respectively; sensitizes H23 the cells by activating the p53 protein, down-regulates MCL1 and up-regulates BAX proteins, with no effect on Bcl-2; enhances anoikis response of human lung cancer H23 and H460 cells.

Pathway : Apoptosis

Target : Apoptosis

Receptor : Apoptosis

Solubility : 10 mM in DMSO

SMILES : CC1=CC2=C(C3C4C5C6=C(C(=C7C(=C6C(N4C(C2)N3C)C#N)COC(=O)C8(CS5)C9=CC(=C(C=C9CCN8)O)OC)OC7)C)OC(=O)C)C(=C1OC)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Saktrakulka P, et al. Bioorg Med Chem. 2011 Aug 1;19(15):4421-36. 2. Powan P, et al. Anticancer Res. 2013 Feb;33(2):505-12. 3. Puthongking P, et al. Chem Pharm Bull (Tokyo). 2006 Jul;54(7):1010-6.