
Product Data Sheet

Product Name: TN-16
Cat. No.: GC18763

Chemical Properties

Cas. No. 33016-12-5

Chemical Name 3-[1-(phenylamino)ethylidene]-5-(phenylmethyl)-2,4-pyrrolidinedione

SMILES O=C(/C1=C(C)\NC2=CC=CC=C2)NC(CC3=CC=CC=C3)C1=O

Formula $C_{19}H_{18}N_2O_2$ M.Wt 306.4

Solubility DMF: 12.5 mg/mL, DMSO: 20 mg/mL, DMSO:PBS(pH 7.2) (1:3): 0.25 mg/mL, Ethanol: 0.25 mg/mL
Store Storage 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

TN-16 is an inhibitor of microtubule polymerization (IC₅₀ = 0.4-1.7 μM). It blocks taxol-induced assembly of tubulin (IC₅₀ = 6 μM) and blocks colchicine binding to tubulin. Like colchicine, TN-16 inhibits alkylation of tubulin. TN-16 induces metaphase arrest in renal cell carcinoma cells. TN-16 can be used in combination with other inhibitors to enhance the efficiency of human artificial chromosome transfer to recipient cells.

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

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