

Amonafide

Catalog No: tcsc0496



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

69408-81-7

Formula:

$C_{16}H_{17}N_3O_2$

Pathway:

Cell Cycle/DNA Damage

Target:

Topoisomerase

Purity / Grade:

>98%

Solubility:

H₂O :

Alternative Names:

AS1413

Observed Molecular Weight:

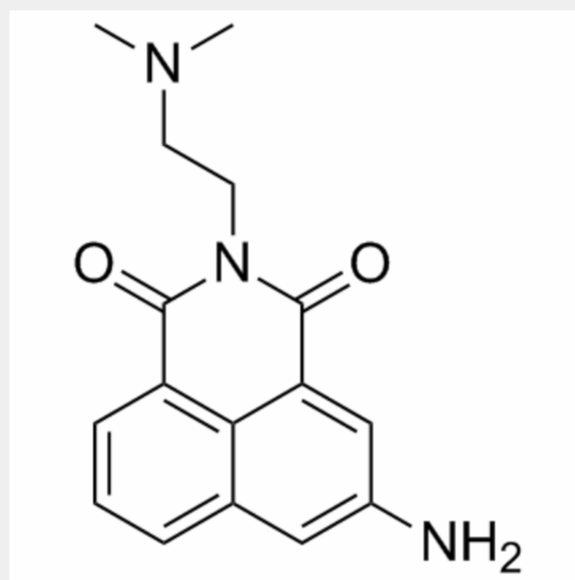
283.33

Product Description

Amonafide is a **topoisomerase II** inhibitor and DNA intercalator that induces apoptotic signaling by blocking the binding of Topo II to DNA.

IC₅₀ & Target: Topoisomerase II^[1]

In Vitro: Amonafide is a topoisomerase II inhibitor and DNA intercalator that induces apoptotic signaling by blocking the binding of Topo II to DNA^[1]. Amonafide produces protein-associated DNA cleavage, single-strand breaks (SSB) and DPC and DNA double-strand cleavage. Amonafide (Nafidimide, 400 nM-2.4 μM) reduces the colony-forming ability of the leukemic cell lines in a dose-dependent manner^[2]. Amonafide (0.05-0.4 μg/mL) reduces several tumor growth. However, Amonafide is active against only 12% of tumors compared with standard agents (5-fluorouracil, mitomycin C, cisplatin, and etoposide), which are active against more than 40% of tumors in the human bone marrow inhibitory range^[3]. Amonafide inhibits the growth of HT-29, HeLa, and PC-3 cell lines, with IC₅₀s of 4.67, 2.73, and 6.38 μM^[4].



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