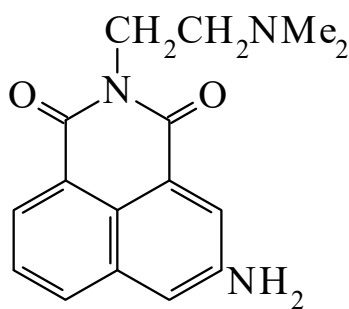




>>Entry Name: Amonafide, INN

Synonym(s): 5-Amino-2-[2-(dimethylamino)ethyl]-1*H*-benz[de]isoquinoline-1,3(2*H*)-dione, 9Cl. Nafidimide. M-FA 142. NSC 308847. 5-Aminomitonafide



CAS Registry Number: 69408-81-7

Molecular Formula: C₁₆H₁₇N₃O₂

Molecular Weight: 283.329

Accurate Mass: 283.132077

Percentage Composition: C 67.83%; H 6.05%; N 14.83%; O 11.29%

Source/Synthesis: Metab. of Mitonafide [BQZ55-F](#)

Use/Importance: DNA intercalator. Antineoplastic and antiviral agent

Development Status: In Phase II clinical trials (1993)

Melting Point: Mp 169-171°

pKa Value: p*K*_{a1} 2.63; p*K*_{a2} 7.31

Calculated Log P Data: Log P 1.91 (calc)

Hazard & Toxicity: LD₅₀ (mus, ivn) 67 mg/kg. Mutagenic props.

>>Derivative: Hydrochloride

CAS Registry Number: 135862-48-5

Physical Description: Cryst. (EtOH)

Melting Point: Mp 290°

>>Derivative: Methanesulfonate

CAS Registry Number: 135882-21-2

Physical Description: Cryst.

Melting Point: Mp 255°

References:

- Garcia, G. *et al.*, *Antiviral Res.*, 1984, **4**, 201, (*pharmacol*)
Paull, K.D. *et al.*, *Arzneim.-Forsch.*, 1984, **34**, 1243, (*sar*)
Sinha, B.K. *et al.*, *Biochem. Pharmacol.*, 1985, **34**, 3845, (*ms, pharmacol*)
Powis, G. *et al.*, *J. Chromatogr.*, 1985, **345**, 402; 408, (*hplc*)
Zee-Cheng, R.K.Y. *et al.*, *J. Med. Chem.*, 1985, **28**, 1216, (*synth, pharmacol*)
Felder, T.B. *et al.*, *Drug Metab. Dispos.*, 1987, **15**, 773, (*metab*)
Isabel, A. *et al.*, *Farmaco*, 1992, **47**, 497
Brown, T.D. *et al.*, *Anti-Cancer Drugs*, 1993, **4**, 49, (*clin trials*)
Ratain, M.J. *et al.*, *Cancer Res.*, 1993, **53**, 2304, (*clin trial*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1337