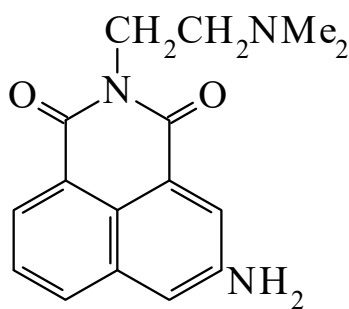




>> **Name:** Amonafide, INN

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:

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Sinha, B.K. *et al.*, *Biochem. Pharmacol.*, 1985, **34**, 3845, (*ms, pharmacol*)
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Felder, T.B. *et al.*, *Drug Metab. Dispos.*, 1987, **15**, 773, (*metab*)
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