

Certificate of Analysis

www.tocris.com

Product Name: FK 866 hydrochloride

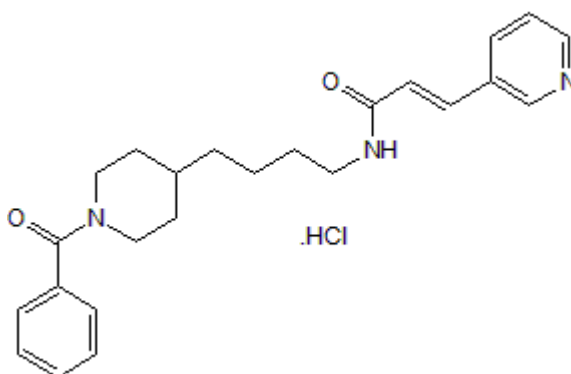
Catalog No.: 4808

Batch No.: 2

IUPAC Name: 2-(*E*)-*N*-[4-(1-Benzoyl-4-piperidinyl)butyl]-3-(3-pyridinyl)-2-propenamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{29}N_3O_2 \cdot HCl \cdot \frac{1}{4}H_2O$
Batch Molecular Weight: 432.47
Physical Appearance: Off-white solid
Solubility: water to 5 mM with gentle warming
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.44$ (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.65	7.11	9.72
Found	66.75	7.32	9.73

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
 www.RnDSystems.com

R&D
SYSTEMS®

Product Name: FK 866 hydrochloride

Catalog No.: 4808

Batch No.: 2

IUPAC Name: 2-(E)-N-[4-(1-Benzoyl-4-piperidinyl)butyl]-3-(3-pyridinyl)-2-propenamide hydrochloride

Description:

Noncompetitive nicotinamide phosphoribosyltransferase (NMPRTase) inhibitor. Induces apoptosis in four different neuroblastoma cell lines; also induces autophagy in SH-SY5Y cells. Potentiates the cytotoxic effects induced by etoposide (Cat. No.1226) and cisplatin (Cat. No. 2251).

Physical and Chemical Properties:

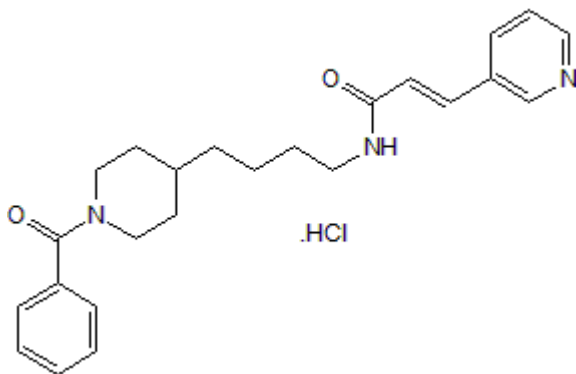
Batch Molecular Formula: C₂₄H₂₉N₃O₂.HCl.¼H₂O

Batch Molecular Weight: 432.47

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 5 mM with gentle warming
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hasmann *et al* (2003) FK866, a highly specific noncompetitive inhibitor of nicotinamide phosphoribosyltransferase, represents a novel mechanism for induction of tumor cell apoptosis. *Cancer Res.* **63** (21) 7436. PMID: 14612543.

Galli *et al* (2008) Synthesis and biological evaluation of isosteric analogues of FK866, an inhibitor of NAD salvage. *ChemMedChem* **3** (5) 771. PMID: 18247435.

Travelli *et al* (2011) Reciprocal potentiation of the antitumoral activities of FK866, an inhibitor of nicotinamide phosphoribosyltransferase, and etoposide or cisplatin in neuroblastoma cells. *J.Pharmacol.Exp.Ther.* **338** (3) 829. PMID: 21685314.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSYSTEMS.com

R&D
SYSTEMS®