

Product Name: EMI 48

Catalog No.: 7424

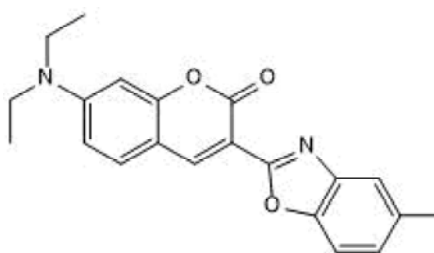
Batch No.: 1

CAS Number: 34564-13-1

IUPAC Name: 7-(Diethylamino)-3-(5-methyl-2-benzoxazolyl)-2H-1-benzopyran-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₀N₂O₃.
Batch Molecular Weight: 348.4
Physical Appearance: Orange solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.4	5.79	8.04
Found	72.51	5.84	8.08

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

Product Name: EMI 48

Catalog No.: 7424

Batch No.: 1

CAS Number: 34564-13-1

IUPAC Name: 7-(Diethylamino)-3-(5-methyl-2-benzoxazolyl)-2H-1-benzopyran-2-one

Description:

EMI 48 is an inhibitor of mutant EGFR; it inhibits L858R/T970M/C797S mutants and ex19del/T790M/C797S triple mutants (inhibitory effects at 5 μ M) but has no effect on wild-type EGFR. EMI 48 induces EGFR degradation (<5 μ M), and inhibits activation of ERK, S6 and AKT.

Physical and Chemical Properties:

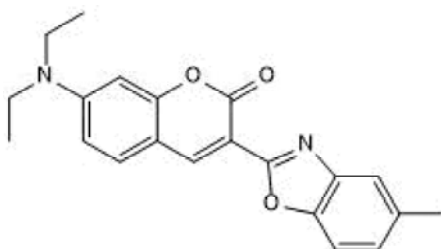
Batch Molecular Formula: C₂₁H₂₀N₂O₃.

Batch Molecular Weight: 348.4

Physical Appearance: Orange solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Saraon *et al* (2020) A drug discovery platform to identify compounds that inhibit EGFR triple mutants. Nat.Chem.Biol. **16** 577. PMID: 32094923.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956