

PRODUCT:**AMMC Iodide****ALTERNATE NAME:**

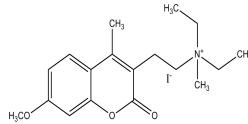
3-[2-(N,N-diethyl-N-methylammonium)ethyl]-7-methoxy-4-methylcoumarin iodide

CATALOG #:

2873-5, 25

AMOUNT:

5 mg, 25 mg

STRUCTURE:**MOLECULAR FORMULA:**

C₁₈H₂₆INO₃

MOLECULAR WEIGHT:

431.31

CAS NUMBER:

N/A

APPEARANCE:

Off-white solid

SOLUBILITY:

Acetonitrile

PURITY:

≥98% by NMR

STORAGE:

Store at -20 °C. Protect from air and light

DESCRIPTION:

AMMC iodide is a useful substrate for the human cytochrome P450 CYP2D6 isozyme. It is demethylated to the fluorescent product 3-[2-(N,N-diethyl-N-methyl ammonium)ethyl]-7-hydroxy-4-methylcoumarin (AMHC). After the AMMC is hydrolyzed, the pH is increased by addition of base for optimal fluorescence detection. AMMC has been used with human liver microsomes to determine CYP2D6 activity and inhibition.

REFERENCES:

Chauret, N., *et al.* (2001). *Drug metab. Dispos.* **29**, 1196-2000.

HANDLING:

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Loperamide hydrochloride (Cat.No.2683)

Vinblastine Sulfate (Cat.No.1959)

A-803467 (Cat.No. 2559)

Veratridine (Cat.No. 2422)

Quinidine Sulfate Dihydrate (Cat.No. 2910)

USAGE:

FOR RESEARCH CH USE ONLY! Not to be used in humans