AMMC Iodide

Product Number A 1352
Storage Temperature -20 °C

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

Product Description
Molecular Formula: C_{18}H_{26}INO_{3}
Formula Weight: 431.3

AMMC iodide is a 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). The enzymatic reaction may be performed in a multiwell plate. 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.

Precautions and Disclaimer
This product is for laboratory research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

This substrate is light sensitive and should be protected from direct sunlight or UV sources.

Storage/Stability
The product ships on wet ice and it is recommended to store the product at -20 °C.

Reference

MDR/MAM 3/03