

MQAE

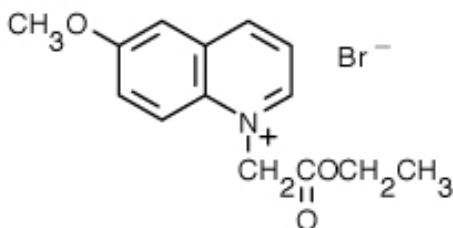
Catalog Number	Packaging Size
C272	50 mg

Storage upon receipt: -20°C, protected from light

Introduction

MQAE is a 6-methoxyquinolinium derivative and is a fluorescent indicator for intracellular Cl⁻. This dye detects the ion via diffusion-limited collisional quenching. MQAE has greater sensitivity to Cl⁻ and a higher fluorescence quantum yield than SPQ; consequently, it is currently the more widely used of the two indicators.

Specifications

Label:	MQAE	
Ex/Em:	350/460 nm	
Detection Method:	Fluorescent	
Solubility:	DMSO, DMF	
Molecular Formula	C ₁₄ H ₁₆ BrNO ₃	
Molecular Weight:	326.19	
CAS Number:	162558-52-3	
Storage Conditions:	-20°C, protect from light	
Shipping Condition:	Room Temperature	

Applications

Chloride indicator

References:

NarK is a nitrite-extrusion system involved in anaerobic nitrate respiration by *Escherichia coli*.

Rowe JJ, Ubbink-Kok T, Molenaar D, Konings WN, Driessen AJ, Mol Microbiol (1994) 12:579-586

Fluorescent imaging of Cl⁻ in Amphiuma red blood cells: how the nuclear exclusion of Cl⁻ affects the plasma membrane potential.

Hoffman JF, Geibel JP
Proc Natl Acad Sci U S A (2005) 102:921-926