

## MQAE

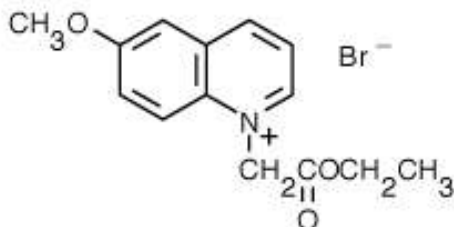
Catalog Number	Packaging Size
C272	50 mg

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

### Introduction

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

### Specifications

<b>Label:</b>	MQAE	
<b>Ex/Em:</b>	350/460 nm	
<b>Detection Method:</b>	Fluorescent	
<b>Solubility:</b>	DMSO, DMF	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>16</sub> BrNO <sub>3</sub>	
<b>Molecular Weight:</b>	326.19	
<b>CAS Number:</b>	162558-52-3	
<b>Storage Conditions:</b>	-20°C, protect from light	
<b>Shipping Condition:</b>	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<sup>-</sup> in *Amphiuma* red blood cells: how the nuclear exclusion of Cl<sup>-</sup> affects the plasma membrane potential.

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