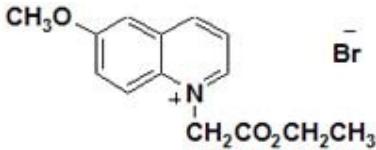


FT-65865A

MQAE

Chloride indicator to measure chloride transportation in liposome membranes

Product Description

| | | |
|--|---|---|
| Name : | 1-(Ethoxycarbonylmethyl)-6-methoxyquinolinium bromide (MQAE) 6-(Methoxyquinolinio)acetic acid ethyl ester bromide |  |
| Catalog Number : | FP-65865A 100 mg | |
| Structure : | C ₁₄ H ₁₆ BrNO ₃ | |
| Molecular Weight : | MW= 326,19 | |
| Solubility: | DMSO, DMF, CH ₃ OH, H ₂ O | |
| Absorption / Emission : | $\lambda_{\text{exc}}/\lambda_{\text{em}}$ (CH ₃ OH) = 351 / 462 nm | |
| EC (M ⁻¹ cm ⁻¹) : | 2 800 | |

Storage: Room temperature Protect from light and moisture

Introduction

MQAE is an improved chloride indicator that has greater sensitivity to chloride ($K_{sv} = 200 \text{ M}^{-1}$) than SPQ ($K_{sv} = 118 \text{ M}^{-1}$) and higher fluorescence quantum yield. The ester group of MQAE may slowly hydrolyze inside cells, resulting in a change in its fluorescence response.

Directions for use

Guidelines for use

Protocol may be found in the literature.

References

- **Banderali U.** *et al.*, Control of apical membrane chloride permeability in the renal A6 cell line by nucleotides, *J. Physiol.*, 519: 737 - 751 (1999) [Article](#)
- **Hoffman J. & Geibel J.**, Fluorescent imaging of Cl⁻ in *Amphiuma* red blood cells: How the nuclear exclusion of Cl⁻ affects the plasma membrane potential, *PNAS*, 102: 921 - 926 (2005) [Article](#)
- **Schachter J.** *et al.*, ATP-induced P2X7-associated uptake of large molecules involves distinct mechanisms for cations and anions in macrophages, *J. Cell Sci.*, 121: 3261 - 3270 (2008) [Article](#)

Technical and scientific information

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- Cell Navigator™ Lysosomal Staining Kit, Green Fluorescence, [JQ8570](#)
- Lucifer Yellow CH, Lithium salt, [FP-15437A](#)
- Propidium iodide, [FP-31238B](#)
- SPQ, [FP-46922A](#)

interbiotech@interchim.com

FT-65865A

Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](http://www.interchim.com/)

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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