



Product Name:

MaP555-Halo

Catalog Number:

T01221

Description:

MaP555-Halo is a highly cell-permeable and fluorogenic probes for live-cell imaging. MaP555 is a small-molecule fluorogenic probe with excellent cell permeability. It is converted from 6-carboxytetramethylrhodamine (6-TAMRA) and has similar spectroscopic properties of 6-TAMRA. MaP555 has an acyl sulfamide structure which favors the spirolactam form, thus has excellent cell permeability. When the probe binds to its cellular targets, MaP555 mainly exists in the fluorescent zwitterion form. The good spectroscopic properties, high cell permeability and outstanding fluorogenicity of MaP555 make it very useful for wash-free, multicolour, live-cell nanoscopy. Excitation maximum = 558 nm; emission maximum = 578 nm.

Physical and Chemical Properties:

Molecular Formula: C₃₇H₄₈CIN₅O₇S

Molecular Weight: 742.33

Physical Appearance: Red solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: 558/578 nm.

Solubility:

DMSO

Storage:

Store at -20°C and protected from light.

Shelf Life:

12 months after date of delivery.

References:

Wang, L., Tran, M., D'Este, E., Roberti, J., Koch, B., Xue, L., & Johnsson, K. (2020). A general strategy to develop cell permeable and fluorogenic probes for multicolour nanoscopy. *Nature Chemistry*, 12(2), 165–172. <https://doi.org/10.1038/s41557-019-0371-1>

Caution:

For Research Use Only.
