



Product Name:

MaP555 NHS

Catalog Number:

T01219

Description:

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 spiro lactam 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. MaP555 NHS is an amine-reactive reagent. It can be used to label proteins, peptides, and modified oligonucleotides containing amine groups. Excitation maximum = 553 nm; emission maximum = 580 nm.

Physical and Chemical Properties:

Molecular Formula: C₃₁H₃₁N₅O₈S

Molecular Weight: 633.68

Physical Appearance: Red solid

Purity: ≥95%

Optical Properties:

Abs/Em Maxima: 553/580 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.
