

MXS

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	MXS is a mitochondria-targeted fluorescent probe for hypochlorous acid (HOCl). It selectively fluoresces in the presence of OCl <sup>-</sup> over O <sub>2</sub> , H <sub>2</sub> O <sub>2</sub> , NO, NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , O <sub>2</sub> <sup>-</sup> , ONOO <sup>-</sup> , and OH when used at a concentration of 10 μM. MXS has been used to monitor real-time mitochondrial HOCl levels in living cells. It displays excitation/emission maxima of 530/654 nm, respectively.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Slightly soluble DMF: 30 mg/mL, Sonication is recommended. DMSO:PBS (pH 7.2) (1:5): 0.16 mg/mL, Sonication is recommended. DMSO: 30 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Gong, J., Liu, C., Cai, S., et al. Novel near-infrared fluorescent probe with a large Stokes shift for sensing hypochlorous acid in mitochondria. *Org. Biomol. Chem.* 18(38):7656-7662(2020)

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