

Product Data Sheet

Product Name: MXS
Cat. No.: GC48526

Chemical Properties

Cas. No.

SMILES CSC(C=C1)=CC=C1/C=C/C2=C3C(OC4=C2C=CC(OC)=C4)=C/C(C=C3)=[N+](CC)\CC

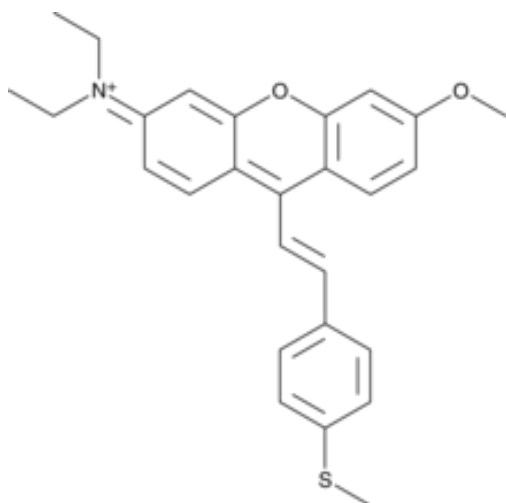
Formula C27H28NO2S M.Wt 430.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 mg/ml, Ethanol: slightly soluble
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

MXS is a mitochondria-targeted fluorescent probe for hypochlorous acid (HOCl).¹ It selectively fluoresces in the presence of OCl⁻ over O₂, H₂O₂, NO, NO₂⁻, NO₃⁻, O₂⁻, ONOO⁻, 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.

1. 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)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA