Data Sheet (Cat.No.T37049)

TargetMol

monoMICAAc

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	monoMICAAc is a solvatochromic fluorescent pH probe.1 As the polarity of the solvent increases, the emission wavelength of monoMICAAc increases. It displays excitation/emission maxima of 425/491, 437/515, and 472/554 nm in hexane, dioxane, and water, respectively. The absorption maximum of monoMICAAc decreases with increasing pH. It displays absorbance/emission maxima of 475/553 and 446/553 nm at pH 3 and 11, respectively, in aqueous Britton-Robinson buffer, and the fluorescence intensity increases as pH decreases. monoMICAAc can be used for live cell fluorescent applications.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 20 mg/mL,Sonication is recommended. Ethanol: 1 mg/mL,Sonication is recommended. DMSO: 20 mg/mL,Sonication is recommended. DMSO:PBS (pH 7.2) (1:6): 0.1 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Nagy, M., Racz, D., Nagy, Z.L., et al. Amino-isocyanoacridines: Novel, tunable solvatochromic fluorophores as phystiological pH probes. Sci. Rep. 9, 8250 (2019).

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