

ICAAC

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	ICAAC is a solvatochromic fluorescent pH probe.1 As the polarity of the solvent increases, the emission wavelength of ICAAC increases. It displays excitation/emission maxima of 466/553, 431/515, and 418/503 nm in water, dioxane, and hexane, respectively. The absorption maximum of ICAAC decreases with increasing pH. It displays absorption/emission maxima of 470/554 and 428/553 nm at pH 3 and 11, respectively, in aqueous Britton-Robinson buffer, and the fluorescence intensity increases as pH decreases. ICAAC can be used for live cell applications.
Targets(IC50)	Others

Solubility Information

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

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

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