

Product Data Sheet

Product Name: ICAAc
Cat. No.: GC45743

Chemical Properties

Cas. No. N/A

SMILES NC1=CC2=C(C=C1)C=C3C(C=C(C=C3)[N+]=[C-])=N2

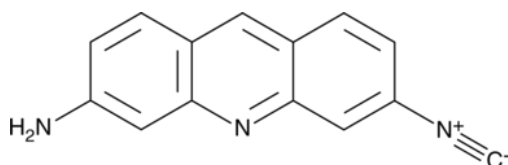
Formula C₁₄H₉N₃ M.Wt 219.2

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, DMSO:PBS (pH 7.2) (1:6): 0.1 mg/ml, Ethanol: 1 mg/ml
Storage Store at -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 sizes: ship with RT, or blue ice upon request.

Structure



Background

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.

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

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

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