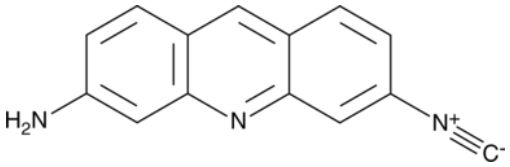
Product Data Sheet

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 size: 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 phystiological 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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