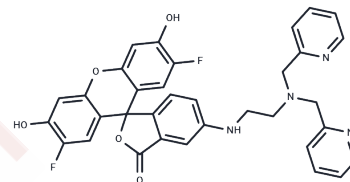


ZnAF-1F

Chemical Properties

CAS No. :	443302-08-7
Formula:	C ₃₄ H ₂₆ F ₂ N ₄ O ₅
Molecular Weight:	608.59
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	ZnAF-1F, with a K _d value of 2.2 nM, serves as a powerful fluorophore and is effective as fluorescent probes for Zn ²⁺ in cellular applications. It exhibits an excitation wavelength (λ excitation) of 489 nm and an emission wavelength (λ emission) of 514 nm [1] [2] [3].
Targets(IC ₅₀)	Others
In vitro	ZnAF-1F (1 μM) demonstrates a K _{on} value of 3.5 × 10 ⁶ M ⁽⁻¹⁾ s ⁽⁻¹⁾ and a K _{off} value of 7.7 × 10 ⁽⁻³⁾ s ⁽⁻¹⁾ in 100 mM HEPES buffer [1]. ZnAF-1F serves as a zinc sensor in neutral and slightly acidic conditions [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6431 mL	8.2157 mL	16.4314 mL
5 mM	0.3286 mL	1.6431 mL	3.2863 mL
10 mM	0.1643 mL	0.8216 mL	1.6431 mL
50 mM	0.0329 mL	0.1643 mL	0.3286 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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