
Product Data Sheet

Product Name: ZnAF-1F
Cat. No.: GC67221

Chemical Properties

Cas. No. 443302-08-7

Formula $C_{34}H_{26}F_2N_4O_5$ M.Wt 608.59

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

ZnAF-1F is a potent fluorophore for with an K_d value of 2.2 nM. ZnAF-1F can be used as fluorescent probes for Zn^{2+} in cells. ZnAF-1F shows λ excitation of 489 nm and λ emission of 514 nm^{[1][2][3]}.

ZnAF-1F (1 μ M) shows an K_{on} value of $3.5 \times 10^6 M^{-1}s^{-1}$, and an K_{off} value of $7.7 \times 10^{-3} s^{-1}$ in 100mM HEPES buffer^[1].

ZnAF-1F is a Zn sensors in neutral and slightly acidic conditions^[2].

[1]. Hirano T, et al. Improvement and biological applications of fluorescent probes for zinc, ZnAFs. J Am Chem Soc. 2002 Jun 12;124(23):6555-62.

[2]. Zhaohua Dai, et al. Tailoring tripodal ligands for zinc sensing. New J. Chem., 2007,31, 1708-1718.

[3]. Que EL, et al. Metals in neurobiology: probing their chemistry and biology with molecular imaging. Chem Rev. 2008 May;108(5):1517-49.

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

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