

Product Data Sheet

Product Name: ZnAF-1F tetraTFA

Cat. No.: GC74199

Chemical Properties

Cas. No.

Formula $C_{42}H_{30}F_{14}N_4O_{13}$

M.Wt 1064.68

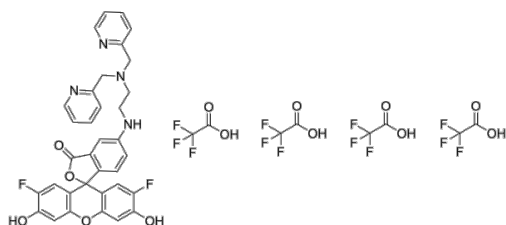
Solubility

Storage	-20°C, sealed storage, away from moisture and light
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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.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Background

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

ZnAF-1F tetraTFA (1 μ M) shows an K_{on} value of $3.5 \cdot 10^6 \text{ M}^{-1}\text{s}^{-1}$, and an K_{off} value of $7.7 \cdot 10^{-3} \text{ s}^{-1}$ in 100 mM HEPES buffer[1]. ZnAF-1F tetraTFA is a Zn sensors in neutral and slightly acidic conditions[2].

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

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References:

- [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.

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