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Zuschläge

- Mindermengenzuschlag
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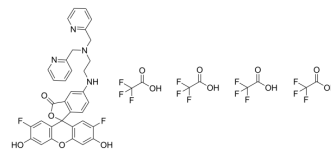
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ZnAF-1F tetraTFA

Cat. No.:	HY-D0159A
Molecular Formula:	C ₄₂ H ₃₀ F ₁₄ N ₄ O ₁₃
Molecular Weight:	1064.68
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	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 ^{[1][2][3]} .
In Vitro	ZnAF-1F tetraTFA (1 μ M) shows an K_{on} value of $3.5 \times 10^6 \text{ M}^{-1}\text{s}^{-1}$, and an K_{off} value of $7.7 \times 10^{-3} \text{ s}^{-1}$ in 100 mM HEPES buffer ^[1] . ZnAF-1F tetraTFA is a Zn sensors in neutral and slightly acidic conditions ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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