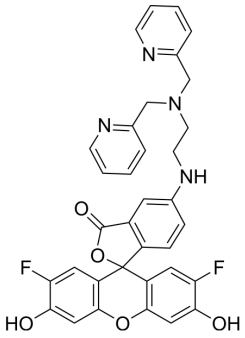
ZnAF-1F

Cat. No.:	HY-D0159
CAS No.:	443302-08-7
Molecular Formula:	$C_{34}H_{26}F_2N_4O_5$
Molecular Weight:	608.59
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

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

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