



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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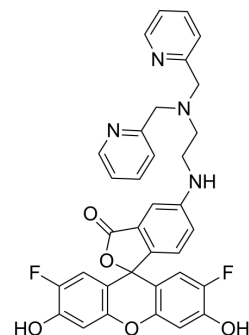
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## ZnAF-1F

<b>Cat. No.:</b>	HY-D0159
<b>CAS No.:</b>	443302-08-7
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>26</sub> F <sub>2</sub> N <sub>4</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	608.59
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 $\lambda$ excitation of 489 nm and $\lambda$ emission of 514 nm <sup>[1][2][3]</sup> .
<b>In Vitro</b>	ZnAF-1F (1 $\mu$ 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 <sup>[1]</sup> . ZnAF-1F is a Zn sensors in neutral and slightly acidic conditions <sup>[2]</sup> . 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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