

## 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

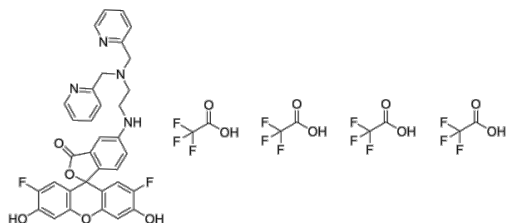
Solubility

Storage -20°C, sealed storage, away from moisture and light

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.

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 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  $\lambda$  excitation of 489 nm and  $\lambda$  emission of 514 nm.

ZnAF-1F tetraTFA (1  $\mu$ 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].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

## Product Data Sheet

---

### 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.***

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: [tech@glpbio.com](mailto:tech@glpbio.com)***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***