

## Product Data Sheet

Product Name: h-FTAA  
Cat. No.: GC80832

### Chemical Properties

Cas. No. 1352477-26-9

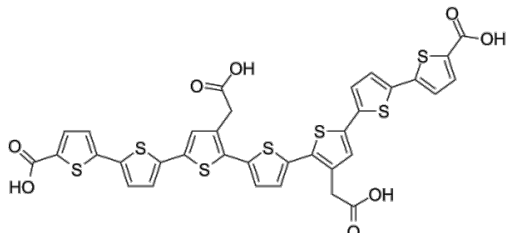
Formula  $C_{34}H_{20}O_8S_7$  M.Wt 780.97

Solubility DMSO: 50 mg/mL (64.02 mM; Need ultrasonic) Storage Store at 4°C, protect from 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

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

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h-FTAA is a luminescent conjugated oligothiophene (LCO) probe. h-FTAA can selectively bind to amyloid protein aggregates (such as A $\beta$  plaques) and distinguish different conformations of the protein aggregates through changes in fluorescence signals. h-FTAA significantly reduces the neurotoxicity of A $\beta$ 1-42 and the Arctic mutant A $\beta$  (A $\beta$ Arc), thereby protecting SH-SY5Y neuroblastoma cells. h-FTAA can be used to dynamically track the formation and maturation process of A $\beta$  plaques [1] [2].

### References:

- [1]. Sandin L, et al. The Luminescent Conjugated Oligothiophene h-FTAA Attenuates the Toxicity of Different A $\beta$  Species. *Biochemistry*. 2021 Sep 21;60(37):2773-2780.
- [2]. Wood JI, et al. Isotope-encoded spatial biology identifies plaque-age-dependent maturation and synaptic loss in an Alzheimer's disease mouse model. *Nat Commun*. 2025 Sep 1;16(1):8170.

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