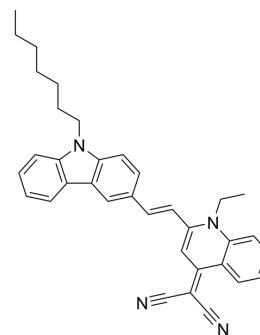


## AIE-Cbz-LD-C7

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-151468   |
| CAS No.:           | 2810130-33-5  |
| Molecular Formula: | C <sub>35</sub> H <sub>34</sub> N <sub>4</sub>  |
| Molecular Weight:  | 510.67  |
| Target:            | Others  |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

AIECbz-LD-C7 is an aggregation-induced emission (AIE) probe based on the conjugation of quinoline-malononitrile (QM) and carbazole. AIECbz-LD-C7 has excellent LD-specificity. AIECbz-LD-C7 can be used for tracking the dynamic changes of LDs and studying the association between LDs and lysosome/endoplasmic reticulum (ER)<sup>[1]</sup>.

#### In Vitro

AIE-Cbz-LD-C (0, 2, 5, 10, 20, and 30 μM; 24 h) have excellent biocompatibility<sup>[1]</sup>.  
 AIECbz-LD-C7 (0.5 μM, 15 min) could aggregate in LDs accurately and light up the LDs with good photostability<sup>[1]</sup>.  
 AIE-Cbz-LD-C7 (0.5 μM) can be used to visualize the interplay between LDs and lysosomes during lipophag due to the excellent LD-specificity<sup>[1]</sup>.  
 AIE-Cbz-LD-C7 (0.5 μM, 15 min) increases the number of ferroptosis<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Cytotoxicity Assay<sup>[1]</sup>

|                  |   |
|------------------|---|
| Cell Line:       | HepG2 cells   |
| Concentration:   | 0, 2, 5, 10, 20, and 30 μM                            |
| Incubation Time: | 24 h  |
| Result:          | Displayed favorable viability with a value above 90%. |

### REFERENCES

[1]. Rui Chen, et al. Rational Design of Novel Lipophilic Aggregation-Induced Emission Probes for Revealing the Dynamics of Lipid Droplets during Lipophagy and Ferroptosis. *Anal Chem.* 2022 Sep 19.

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

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