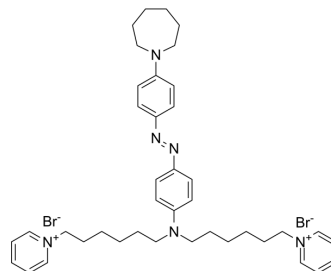


## Ziapiin 2

Cat. No.:	HY-156004
CAS No.:	2399497-60-8
Molecular Formula:	C <sub>40</sub> H <sub>54</sub> Br <sub>2</sub> N <sub>6</sub>
Molecular Weight:	778.7
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ziapiin 2 is a molecular optomechanical light transducer. Ziapiin 2 is an amphiphilic azobenzene with a strong non-covalent affinity to the plasma membrane. Ziapiin 2 can be used to photo-modulate the membrane potential in cells of the Gram-positive bacterium *Bacillus subtilis*. Ziapiin 2 enters the lipid membrane very rapidly ( $\approx 40$  ns)<sup>[1][2]</sup>.

### REFERENCES

- [1]. de Souza-Guerreiro TC, et al. Membrane Targeted Azobenzene Drives Optical Modulation of Bacterial Membrane Potential. *Adv Sci (Weinh)*. 2023 Mar;10(8):e2205007.
- [2]. Paternò GM, et al. The Effect of an Intramembrane Light-Actuator on the Dynamics of Phospholipids in Model Membranes and Intact Cells. *Langmuir*. 2020 Oct 6;36(39):11517-11527.

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

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