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**Product Data Sheet**

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Product Name: CAY10614

Cat. No.: GC18883

**Chemical Properties**

Cas. No. 1202208-36-3

Chemical Name N-cyclopentyl-N,N-dimethyl-3,4-bis(tetradecyloxy)-benzenemethanaminium, iodide

SMILES CCCCCCCCCCCCCOC1=CC=C(C[N+](C)(C)C2CCCC2)C=C1OCCCCCCCCCCCCC.[I-]Formula C<sub>42</sub>H<sub>78</sub>INO<sub>2</sub>

M.Wt 756

Solubility DMF: 0.15 mg/ml, DMSO: 0.14 mg/ml

Storage Store at 2-8°C

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**

Lipid A is a lipid-rich component of endotoxin, also known as lipopolysaccharide (LPS), which in turn is part of the outer membrane of Gram-negative bacteria. Lipid A activates toll-like receptor 4 (TLR4), initiating an immune response. CAY10614 is an antagonist of lipid A activation of TLR4, exhibiting an IC<sub>50</sub> value of 1.68 μM in a cell-based assay using modified human embryonic kidney (HEK) cells. It does not significantly affect HEK cell viability. In a model of sepsis, CAY10614 dramatically and significantly improves survival of mice given intraperitoneal LPS.

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

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