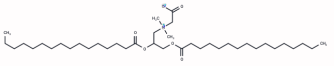
DPCB

Cat. No.: **SN-M-LM238**

Chemical Properties

Product Name	DPCB
Full Name	2-[2,3-di(hexadecanoyloxy)propyl-dimethylazaniumyl]acetate
Cat. No.	SN-M-LM238
CAS No.	1394812-57-7
Molecular Formula	C39H75NO6
Molecular Weight	654.016
Storage	Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Shipping	Shipping with blue ice/Shipping at ambient temperature.
Purity	98+%

Structure



Biological Description

DPCB (diphosphinidenecyclobutene) is a sterically protected bidentate ligand featuring two-coordinate sp²-hybridized phosphorus atoms, which forms stable complexes with transition metals including palladium, platinum, ruthenium, and gold. In catalytic allylic substitution, DPCB-palladium complexes enable direct conversion of allylic alcohols without Lewis acid activators, achieving N-allylation of aniline at room temperature with 90–97% yield and C-allylation of active methylene compounds at 50 °C with 85–95% yield. This ligand system is widely applied in cross-coupling reactions such as Sonogashira, Suzuki-Miyaura, Ullmann, and Stille couplings, as well as in polymerization, hydrosilylation, hydroamination, and Tsuji-Trost-type alkylations.

Related Products / Keywords

- DPCB

This product is a research reagent and must not be used for clinical validation or human therapeutic use.