

Product Data Sheet

Product Name: Mito-apocynin (C11)

Cat. No.: GC61068

Chemical Properties

Cas. No. 1254044-38-6

SMILES O=C(OCCCCCCCCCCC[P+](C1=CC=CC=C1)(C2=CC=CC=C2)C3=CC=CC=C3)C4=CC=C(O)C(OC)=C4.[Br-]

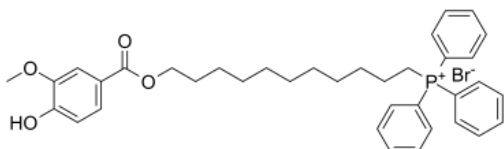
Formula $C_{37}H_{44}BrO_4P$ M.Wt 663.62

Solubility DMSO: 100 mg/mL (150.69 mM) Storage Store at -20°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

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

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Mito-apocynin (C11), an orally active mitochondria-targeted triphenylphosphonium (TPP)-based compound, is synthesized by conjugating the Apocynin moiety with a TPP⁺ cation. Mito-apocynin (C11) selectively targets mitochondria, and shows neuroprotective effect. Mito-apocynin (C11) prevents hyposmia and corrects deficits in motor function[1].

Mito-apocynin-C11 (3 mg/kg; oral gavage; 3x/wk from 3 months of age until 15 months) markedly improves the coordinated motor function and olfactory function in LRRK2R1441G mice[1]. Animal Model: LRRK2R1441G mice[1]

[1]. Dranka BP, et al. A novel mitochondrially-targeted apocynin derivative prevents hyposmia and loss of motor function in the leucine-rich repeat kinase 2 (LRRK2(R1441G)) transgenic mouse model of Parkinson's disease. *Neurosci Lett*. 2014 Nov 7;583:159-64.

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