

Product Data Sheet

Product Name: CPPA-TPP

Cat. No.: GC91800

Chemical Properties

Cas. No. N/A

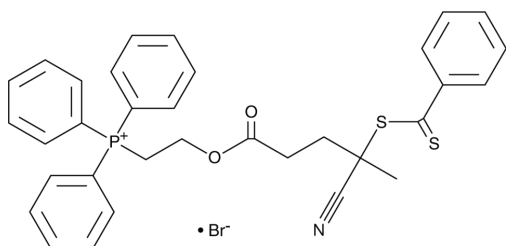
Formula $C_{33}H_{31}NO_2PS_2 \cdot Br$ M.Wt 648.6

Solubility DMSO: Sparingly soluble: 1-10 mg/mL, Ethanol: Sparingly soluble: 1-10 mg/mL, PBS (pH 7.2): Slightly soluble: 0.1-1 mg/mL Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

CPPA-TPP is a chain transfer agent conjugated to the mitochondria-targeting moiety triphenylphosphonium (TPP).¹ It has been used in the synthesis of reactive oxygen species-sensitive mitochondrial targeting polyprodrugs containing the topoisomerase I inhibitor camptothecin.

References:

[1]. Zhang, W., Hu, X., Shen, Q., et al. Mitochondria-specific drug release and reactive oxygen species burst induced by polyprodrug nanoreactors can enhance chemotherapy. *Nat. Commun.* 10(1)1704 (2019).

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

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