

Product Data Sheet

Product Name: DCM-ONOO

Cat. No.: GC80343

Chemical Properties

Cas. No. 2759816-87-8

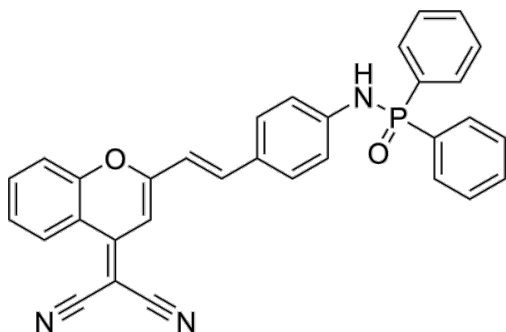
Formula $C_{32}H_{22}N_3O_2P$ M.Wt 511.51

Solubility DMSO: 5.45 mg/mL (10.65 mM; Need warming) Storage Store at 4°C, away from moisture and light

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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DCM-ONOO is a near-infrared two-photon fluorescence probe specifically designed for real-time monitoring of the dynamic fluctuations of peroxynitrite (ONOO^-) in epilepsy models. DCM-ONOO exhibits excellent optical properties, with a single photon excitation (Ex) of 520 nm; a single photon emission (Em) of 685 nm; a two-photon excitation of 820 nm; and a Stokes shift of 165 nm. When DCM-ONOO is combined with ONOO^- , it shifts from 460 nm to 512 nm, and only generates a significant fluorescence response to ONOO^- . DCM-ONOO has been successfully applied to rat epilepsy models [1].

References:

[1]. Luo X, et al. Indication of Dynamic Peroxynitrite Fluctuations in the Rat Epilepsy Model with a Near-Infrared Two-Photon Fluorescent Probe. *Anal Chem.* 2021 Feb 2;93(4):2490-2499.

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