

Product Data Sheet

Product Name: MitoNeoD

Cat. No.: GB62268

Chemical Properties

Cas. No. 2375088-89-2

SMILES CC(C)(C)CNC1=CC(C(C2=CC=CC=C2)([2H])N(CCCCCC[P+](C3=CC=CC=C3)(C4=CC=CC=C4)C5=CC=CC=C5)C6=CC(NCC(C)(C)C)=CC=C7C=C1.[Br-]

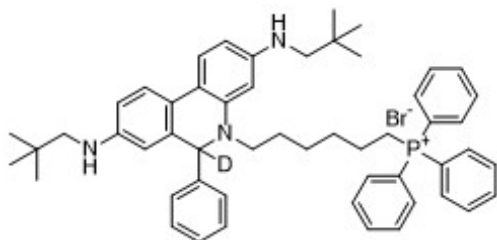
Formula C53H62DBrN3P M.Wt 853.9919

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

MitoNeoD is a novel mitochondria-targeted O₂(·-) probe that can be used in vivo. It prevents DNA intercalation. MitoNeoD incorporates a carbon-deuterium bond, and enhances O₂(·-) selectivity. MitoNeoD comprises a O₂---sensitive reduced phenanthridinium moiety modified to prevent DNA intercalation, as well as a carbon-deuterium bond to enhance its selectivity for O₂·- over non-specific oxidation, and a triphenylphosphonium lipophilic cation moiety leading to the rapid accumulation within mitochondria. MitoNeoD is a versatile and robust probe to assess changes in mitochondrial O₂·- from isolated mitochondria to animal models, thus offering a way to examine the many roles of mitochondrial O₂·- production in health and disease.

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

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