

Product Data Sheet

Product Name: MitoA
Cat. No.: GC44198

Chemical Properties

Cas. No.

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

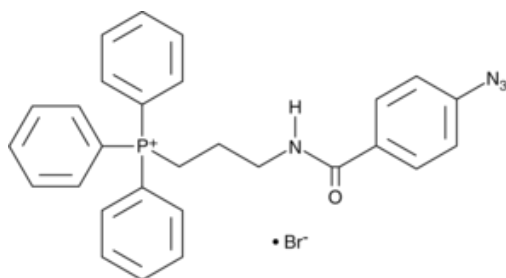
Formula C₂₈H₂₆N₄OP•Br M.Wt 545.4

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

MitoA is a ratiometric mass spectrometry probe that can be used for assessing changes in H₂S within mitochondria in vivo. MitoA contains a triphenylphosphonium cation component that drives its accumulation in mitochondria where its aryl azide moiety selectively reacts with H₂S to produce an amine product, MitoN. Quantifying the MitoN/MitoA ratio by LC-MS/MS reflects the mitochondrial matrix H₂S concentration. In a mouse model of acute myocardial infarction with MitoA administered prior to ischemia, the MitoN/MitoA ratio is increased only in the region of ischemia.

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

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