Print Date: Sep 5th 2019

Certificate of Analysis

www.tocris.com

Product Name: **Benzoquinonium dibromide** **Catalog No.: 0424** **Batch No.: 1**

IUPAC Name: *N*,*N*'-[(3,6-Dioxo-1,4-cyclohexadiene-1,4-diyl)*bis*(imino-3,1-propanediyl)]*bis*[*N*,*N*-diethylbenzenemethanaminium] dibromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{34}H_{50}Br_2N_4O_2$

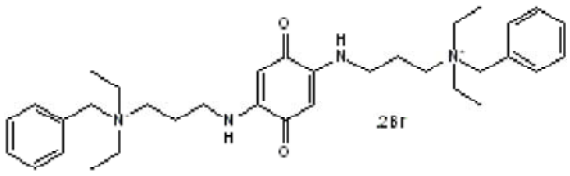
Batch Molecular Weight: 706.6

Physical Appearance: Red solid

Solubility: DMSO to 100 mM
water to 5 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 214 - 216°C

^{1}H NMR: Consistent with structure

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **Benzoquinonium dibromide** **Catalog No.: 0424** **Batch No.: 1**

IUPAC Name: *N*,*N*'-[(3,6-Dioxo-1,4-cyclohexadiene-1,4-diyl)*bis*(imino-3,1-propanediyl)]*bis*[*N*,*N*-diethylbenzenemethanaminium] dibromide

Description:

Nicotinic antagonist, ganglion blocker. Activates single channels but blocks open channels at nicotinic receptors.

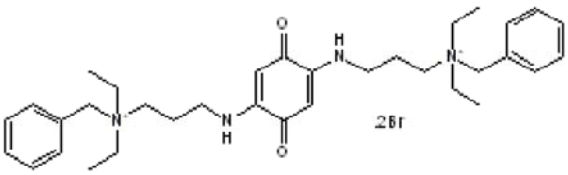
Physical and Chemical Properties:

Batch Molecular Formula: $C_{34}H_{50}Br_2N_4O_2$

Batch Molecular Weight: 706.6

Physical Appearance: Red solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
water to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Pereira *et al* (1993) Identification and functional characterization of a new agonist site on nicotinic acetylcholine receptors of cultured hippocampal neurons. J.Pharmacol.Exp.Ther. ***265*** 1474. PMID: 8510023.

Bowman and Webb (1972) Neuromuscular blocking and ganglia blocking activities of some acetylcholine antagonists in the cat. J.Pharm.Pharmacol. ***24*** 762. PMID: 4403972.