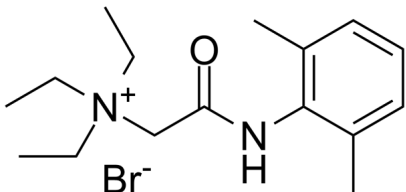


Certificate of Analysis

Catalog Number	BP16143
Product Name	QX-314 bromide

Physical and Chemical Properties

CAS No.	24003-58-5
Chemical Formula	C ₁₆ H ₂₇ BrN ₂ O
Molecular Weight	343.3
Solubility	
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	QX-314 bromide is a blocker of the membrane-impermeable permanently charged sodium channel.
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In vitro	QX-314 bromide inhibits calcium currents in hippocampal CA1 pyramidal neurons intracellular, and the low-threshold (T-type) Ca ²⁺ currents are on average < 10% of control amplitude. QX-314 bromide exerts biphasic effects on transient receptor potential vanilloid subtype 1 channels in vitro. QX-314 bromide shifts the current-voltage relationships (I-Vs) in the positive voltage direction due to the presence of intracellular Br ⁻ . QX-314 bromide (≥ 30 mM) produces oocyte membrane blackening and cell death. QX-314 bromide (1-60 mM) directly activates TRPV1 in a concentration-dependent manner .
In vivo	QX-314 bromide (1.6 mg/kg; i.c.) abolishes responses to noxious mechanical and thermal stimuli .

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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