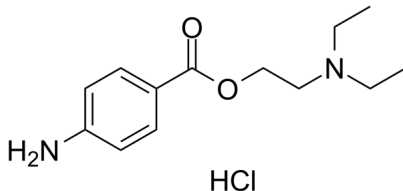


## Certificate of Analysis

Catalog Number	BP13422
Product Name	Procaine hydrochloride

## Physical and Chemical Properties

Synonyms	Novocaine HCl, Procaine HCl
CAS No.	51-05-8
Chemical Formula	C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub> ·HCl
Molecular Weight	272.77
Solubility	Ethanol: <1 mg/mL DMSO: 51 mg/mL (187 mM); H <sub>2</sub> O: 50 mg/mL (183.3 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p style="text-align: center;">HCl</p>

## Product Information

Description	Procaine Hydrochloride is the hydrochloride salt form of procaine, a benzoic acid derivative with local anesthetic and antiarrhythmic properties. Procaine binds to and inhibits voltage-gated sodium channels, thereby inhibiting the ionic flux required for the initiation and conduction of impulses. In addition, this agent increases electrical excitation threshold, reduces rate of rise of action potential and slows nerve impulse propagation thereby causing loss of sensation.
Targets&IC50	NMDA Receptor:0.296 mM, sodium channel:60 µM, nAChR:45.5 µM, 5-HT3:1.7 µM(Kd)

## 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

v2 Revision on 12/28/2022