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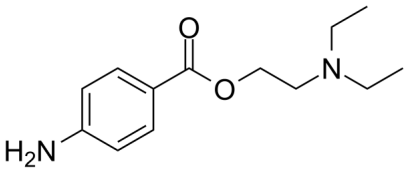
Certificate of Analysis

Catalog Number	BP13423
Product Name	Procaine

Physical and Chemical Properties

Synonyms	Vitamin H3, Duracaine, Spinocaine, Novocaine
CAS No.	59-46-1
Chemical Formula	C13H20N2O2
Molecular Weight	236.32
Solubility	H2O: <1 mg/mL DMSO: 47 mg/mL (198.89 mM); Ethanol: 43 mg/mL(182 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Procaine is a local anesthetic of the ester type that has a slow onset and a short duration of action. It is mainly used for infiltration anesthesia, peripheral nerve block, and spinal block.
In vitro	The viability of HLE, HuH7, and HuH6 cells is significantly decreased by procaine treatment. Inhibition of S/G2/M transition, morphological changes such as vacuolation and no increase in apoptosis rate are observed in the procaine-treated HLE cells. All the genes transcriptionally suppressed by DNA hypermethylation are demethylated and reactivated with procaine treatment. Procaine has growth-inhibitory and demethylating effects on human hepatoma cells.
In vivo	Procaine has a growth-inhibitory and demethylating effect against xenograft in vivo.

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.

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