

# Procaine (hydrochloride)

Catalog No: tcsc2648



## Available Sizes

Size: 1g

Size: 5g



## Specifications

**CAS No:**

51-05-8

**Formula:**

$C_{13}H_{21}ClN_2O_2$

**Pathway:**

Neuronal Signaling;Membrane Transporter/Ion Channel

**Target:**

GABA Receptor;GABA Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 50 mg/mL (183.30 mM; Need ultrasonic); H<sub>2</sub>O : ≥ 50 mg/mL (183.30 mM)

**Observed Molecular Weight:**

272.77

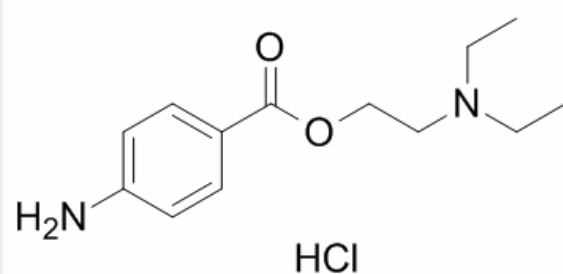
## Product Description

Procaine Hydrochloride is a local anesthetic drug of the amino ester group.

Target: Others

Procaine is a local anesthetic of the ester type that has a slow onset and a short duration of action.Procaine (0.01-100 microM) inhibited the 5-HT<sub>3</sub> receptor-mediated inward current in the whole-cell patch clamp recording. Procaine appears to produce a

competitive inhibition on 5-HT<sub>3</sub> receptors with a KD of 1.7 microM [1]. Procaine is a DNA-demethylating agent that produces a 40% reduction in 5-methylcytosine DNA content as determined by high-performance capillary electrophoresis or total DNA enzyme digestion. Procaine can also demethylate densely hypermethylated CpG islands. Procaine also has growth-inhibitory effects in these cancer cells, causing mitotic arrest [2]. Procaine functions as an excitant of limbic system cells, and that procaine alters synaptic transmission in some, but not all, output pathways from the amygdale [3].



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