

Procaine

Catalog No: tcsc2647



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

59-46-1

Formula:

$C_{13}H_{20}N_2O_2$

Pathway:

Neuronal Signaling;Membrane Transporter/Ion Channel

Target:

GABA Receptor;GABA Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

236.31

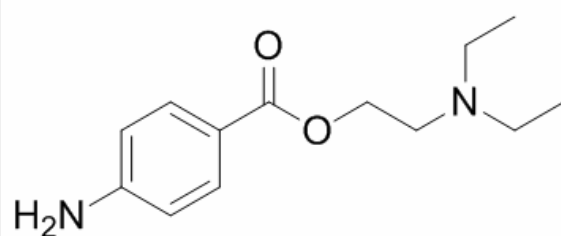
Product Description

Procaine is a local anesthetic drug of the amino ester group, which acts through multiple targets.

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-HT3 receptor-mediated inward current in the whole-cell patch clamp recording. Procaine appears to produce a

competitive inhibition on 5-HT₃ receptors with a KD of 1.7 µM [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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