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**Product Data Sheet**

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Product Name: UCL 2077

Cat. No.: GC13188

**Chemical Properties**

Cas. No. 918311-87-2

Chemical Name 1,1,1-triphenyl-N-(pyridin-3-ylmethyl)methanamine

SMILES C1(C(C2=CC=CC=C2)(C3=CC=CC=C3)NCC4=CC=CN=C4)=CC=CC=C1Formula  $C_{25}H_{22}N_2$  M.Wt 350.46

Solubility &lt;17.52mg/ml in DMSO; &lt;8.76mg/ml in ethanol Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

UCL 2077 is a selective slow-afterhyperpolarization (sAHP) channel blocker (IC<sub>50</sub> = 500 nM in hippocampal neurons in culture), having minimal effects on Ca<sup>2+</sup> channels, action potentials, input resistance and the medium after hyperpolarization[1]. UCL 2077 is also a subtype-selective blocker of the epilepsy associated KCNQ channels[2].

## References:

[1]. Shah MM, et al. Enhancement of hippocampal pyramidal cell excitability by the novel selective slow-afterhyperpolarization channel blocker 3-(triphenylmethylaminomethyl)pyridine (UCL2077). *Mol Pharmacol.* 2006 Nov;70(5):1494-502.

[2]. Soh H, et al. The specific slow afterhyperpolarization inhibitor UCL2077 is a subtype-selective blocker of the epilepsy associated KCNQ channels. *Mol Pharmacol.* 2010 Dec;78(6):1088-95.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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