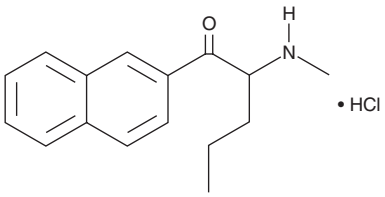
PRODUCT INFORMATION

NRG-3 (hydrochloride)

Item No. 14115

CAS Registry No.:	2701928-05-2
Formal Name:	2-(methylamino)-1-(naphthalen-2-yl) pentan-1-one, monohydrochloride
MF:	$C_{16}H_{19}NO \bullet HCl$
FW:	277.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 208, 258, 294, 341 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥5 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NRG-3 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the NRG-3 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. NRG-3 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NRG-3 (hydrochloride) in DMSO is approximately 2 mg/ml and approximately 1 mg/ml in ethanol and DMF.

NRG-3 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NRG-3 (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. NRG-3 (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Substituted cathinones are psychostimulants which have appeared in chemical mixtures sold over the counter.[1-3] NRG-3 is a substituted cathinone that is structurally analogous to pentylone (Item No. 9000746), with the methylenedioxy group replaced with a naphthyl group. The physiological and toxicological properties of this compound have not been evaluated. This product is intended for forensic and research applications.

References

1. Kikura-Hanajiri, R., Uchiyama, N., and Goda, Y. Survey of current trends in the abuse of psychotropic substances and plants in Japan. *Leg. Med. (Tokyo)* **13(3)**, 109-15 (2011).
2. Brandt, S.D., Sumnall, H.R., Measham, F., *et al*. Analyses of second-generation 'legal-highs' in the UK: Initial findings. *Drug Test. Anal.* **2(8)**, 377-382 (2010).
3. Analysis of NRG 'legal highs' in the UK: Identification and formation of novel cathinones. Brandt, S.D., *et al*. Retrieved August 18, 2010, from www.drugtestinganalysis.com.

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