# **PRODUCT** INFORMATION



4-Methylethcathinone metabolite (hydrochloride)

((±)-Pseudoephedrine stereochemistry)

Item No. 9001436

Formal Name:	(1R,2R)-2-(ethylamino)-1-( <i>p</i> -tolyl)propan-1-ol, monohydrochloride	
Synonyms:	4-MEC metabolite,	
	4-methyl-N-ethyl Cathinone metabolite	ОН
MF:	$C_{12}H_{19}NO \bullet HCI$	
FW:	229.8	•нсі
Purity:	≥98%	
UV/Vis.:	λ <sub>max</sub> : 213, 218 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.		

## Description

4-methylethcathinone (4-MEC) (hydrochloride) (Item No. 9001069) is a cathinone derivative identified in several designer, recreational drugs that are sold as "legal high" replacements for controlled stimulants such as methamphetamine and 3,4-methylenedioxymethamphetamine.<sup>1-3</sup> This metabolite of 4-MEC features conversion of the  $\beta$ -keto group to  $\beta$ -hydroxy and is an enantiomeric mixture of the R,R and S,S orientations at carbons one and two, as in pseudoephedrine. The physiological and toxicological properties of this compound have not been elucidated. This product is intended for research and forensic applications.

## References

- 1. Schifano, F., Albanese, A., Fergus, S., et al. Mephedrone (4-methylmethcathinone; 'meow meow'): Chemical, pharmacological and clinical issues. Psychoparmacol. (Berl). 214(3), 593-602 (2011).
- 2. Santali, E.Y., Cadogan, A.-K., Nic Daeid, N., et al. Synthesis, full chemical characterisation and development of validated methods for the quantification of (±)-4'-methylmethcathinone (mephedrone): A new "legal high". J. Pharm. Biomed. Anal. 56, 246-255 (2011).
- 3. Gibbons, S. and Zloh, M. An analysis of the 'legal high' mephedrone. Bioorg. Med. Chem. Lett. 20(14), 4135-39 (2010).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

## WARRANTY AND LIMITATION OF REMEDY

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