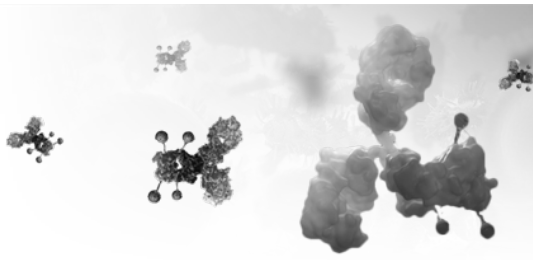

Dehydronorketamine HCl Standard solution (DWT09)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	100 µg/mL analytical Dehydronorketamine Standard
Conjugate	N/A
Cas.No	1435934-26-1
Molecular Weight	258.14g/mol
Format	Liquid
Concentration	100 µg/mL
Size	1 ml
Buffer	Acetonitrile
Storage	Store unopened in freezer(-10°C to 25°C)

BACKGROUND

Introduction	Dehydronorketamine (DHNK), or 5,6-dehydronorketamine, is a minor metabolite of ketamine which is formed by dehydrogenation of its metabolite norketamine. Though originally considered to be inactive, DHNK has been found to act as a potent and selective negative allosteric modulator of the α7-nicotinic acetylcholine receptor (IC50 = 55 nM). For this reason, similarly to hydroxynorketamine (HNK), it has been hypothesized that DHNK may have the capacity to produce rapid antidepressant effects. However, unlike ketamine, norketamine, and HNK, DHNK has been found to be inactive in the forced swim test (FST) in mice at doses up to 50 mg/kg. DHNK is inactive at the α3β4-nicotinic acetylcholine receptor (IC50> 100 µM) and is only very weakly active at the NMDA receptor (Ki = 38.95 µM for (S)-(+)-DHNK). It can be

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	detected 7–10 days after a modest dose of ketamine, and because of this, is useful in drug detection assays.
Keywords	Dehydronorketamine; DHNK; 5,6-dehydronorketamine; 6-Amino-6-(2-chlorophenyl)cyclohex-2-en-1-one

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