Product Name: Zolpidem
CAS Number: 82626-48-0
IUPAC Name: N,N,6-Trimethyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{21}N_{3}O$
Batch Molecular Weight: 307.39
Physical Appearance: White solid
Solubility: ethanol to 100 mM
DMSO to 50 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
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IUPAC Name: N,N,6-Trimethyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetamide

Description:
Benzodiazepine agonist with high selectivity for α1-subunit-containing GABA_A receptors (BZ/ω1 site) and very high intrinsic activity. K_i values are 20, 400 and ≥ 5000 nM for α1-, α2-/α3-, and α5-containing GABA_A receptors respectively. Hypnotic that does not induce physical dependence.

Physical and Chemical Properties:
Batch Molecular Formula: C_{19}H_{21}N_{3}O
Batch Molecular Weight: 307.39
Physical Appearance: White solid
Minimum Purity: >99%

Storage:
Store at RT

Solubility & Usage Info:
ethanol to 100 mM
DMSO to 50 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule IV DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References: