

Product Name: Indiplon

Catalog No.: 3597

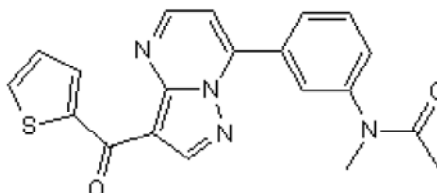
Batch No.: 1

CAS Number: 325715-02-4

IUPAC Name: *N*-Methyl-*N*-[3-[3-[2-thienylcarbonyl]pyrazolo[1,5-*a*]pyrimidin-7-yl]phenyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₆N₄O₂S
Batch Molecular Weight: 376.43
Physical Appearance: Pale yellow solid
Solubility: DMSO to 50 mM
ethanol to 5 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.82	4.28	14.88
Found	63.72	4.22	14.83

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

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Description:

Potent GABA_A receptor positive allosteric modulator that acts at the benzodiazepine site (*K_i* values are 1.2 and 1.7 nM in rat frontal cortex and cerebellum respectively). Displays ~ 10-fold selectivity for α1 subunit-containing receptors (*EC*₅₀ values are 2.6, 24, 60 and 77 nM for α1β2γ2, α2β2γ2, α3β3γ2 and α5β2γ2 receptors respectively). Exhibits sedative, hypnotic, anxiolytic and anticonvulsant activity in vivo and is orally active.

Physical and Chemical Properties:

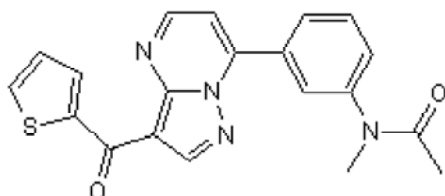
Batch Molecular Formula: C₂₀H₁₆N₄O₂S

Batch Molecular Weight: 376.43

Physical Appearance: Pale yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 5 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.

References:

Soderhielm *et al* (2018) Probing the molecular basis for affinity/potency- and efficacy-based subtype-selectivity exhibited by benzodiazepine-site modulators at GABA_A receptors. *Biochem.Pharmacol.* **158** 339. PMID: 30121248 .

Petroski *et al* (2006) Indiplon is a high-affinity positive allosteric modulator with selectivity for α1 subunit-containing GABA_A receptors. *J.Pharmacol.Exp.Ther.* **317** 369. PMID: 16399882.

Foster *et al* (2004) In vivo pharmacological characterization of indiplon, a novel pyrazolopyrimidine sedative-hypnotic. *J.Pharmacol.Exp.Ther.* **311** 547. PMID: 15256538.

Sullivan *et al* (2004) Characterization of the interaction of indiplon, a novel pyrazolopyrimidine sedative-hypnotic, with the GABA_A receptor. *J.Pharmacol.Exp.Ther.* **311** 537. PMID: 15256540.

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