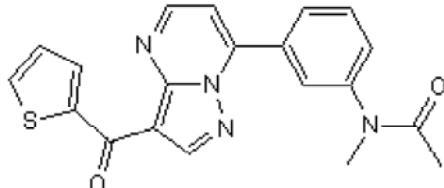


Certificate of Analysiswww.tocris.com**Product Name:** Indiplon**Catalog No.:** 3597**Batch No.:** 1

CAS Number: 325715-02-4

IUPAC Name: *N*-Methyl-*N*-[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

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Product Information

www.tocris.com

Product Name: Indiplon

Catalog No.: 3597

Batch No.: 1

CAS Number: 325715-02-4

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

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 (EC₅₀ 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:

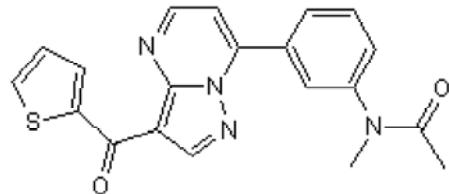
Batch Molecular Formula: C₂₀H₁₆N₄O₂S

Batch Molecular Weight: 376.43

Physical Appearance: Pale yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Soderholm 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.

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.

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