

**Product Name:** PZ-II-029

**Catalog No.:** 6192

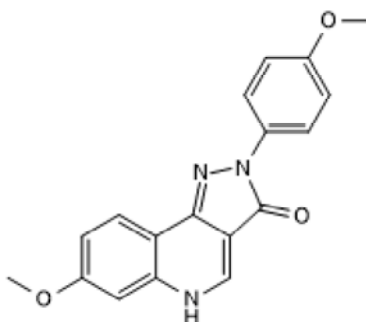
**Batch No.:** 1

CAS Number: 164025-44-9

IUPAC Name: 2,5-Dihydro-7-methoxy-2-(4-methoxyphenyl)-3H-pyrazolo[4,3-c]quinolin-3-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 321.33  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Dichloromethane:Methanol [95:5])  
**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.28	4.71	13.08
Found	67.15	4.68	12.97

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

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**Description:**

GABA<sub>A</sub> positive allosteric modulator. Selectively binds with high affinity to  $\alpha 6\beta 3\gamma 2$  subunit-containing channels. Inhibits central and peripheral trigeminal responses in a rat migraine model.

**Physical and Chemical Properties:**

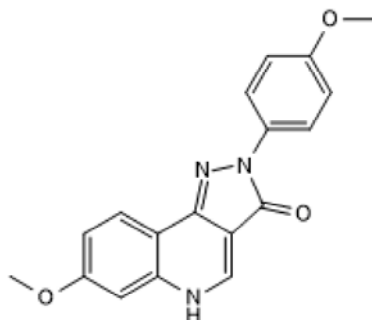
Batch Molecular Formula: C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>

Batch Molecular Weight: 321.33

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 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:**

**Fan et al** (2018 ) The  $\alpha 6$  subunit-containing GABA<sub>A</sub> receptor: A novel drug target for inhibition of trigeminal activation. *Neuropharmacology*. **140** 1. PMID: 30016665.

**Varagic et al** (2013) Subtype selectivity of  $\alpha +\beta -$  site ligands of GABA<sub>A</sub> receptors: identification of the first highly specific positive modulators at  $\alpha 6\beta 2/3\gamma 2$  receptors. *Br.J.Pharmacol.* **169** 384. PMID: 23472935.

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