

Product data sheet



MedKoo Cat#: 530932 Name: PZ-II-029 CAS#: 2170608-82-7 Chemical Formula: C ₁₈ H ₁₅ N ₃ O ₃ Exact Mass: 321.1113 Molecular Weight: 321.34		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

PZ-II-029 is a $\alpha 6\beta 3\gamma 2$ -selective GABAA channel modulator.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	10	31.12

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.11 mL	15.56 mL	31.12 mL
5 mM	0.62 mL	3.11 mL	6.22 mL
10 mM	0.31 mL	1.56 mL	3.11 mL
50 mM	0.06 mL	0.31 mL	0.62 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

To be determined

In vivo study

1. Divović Matović B, Knutson D, Mitrović J, Stevanović V, Stanojević B, Savić S, Cook JM, Savić MM. Behavioural interaction of pyrazoloquinolinone positive allosteric modulators at $\alpha 6\text{GABAA}$ receptors and diazepam in rats: Anti-diazepam-induced ataxia action as a structure-dependent feature. Basic Clin Pharmacol Toxicol. 2022 Dec;131(6):514-524. doi: 10.1111/bcpt.13801. Epub 2022 Oct 8. PMID: 36180380.

7. Bioactivity

Biological target:

PZ-II-029 is a specific positive modulator of GABAA channels composed of $\alpha 6\beta 3\gamma 2$ subunits.

In vitro activity

To be determined

In vivo activity

In male Sprague-Dawley rats, PZ-II-029 and its deuterated analogues are not prone to untoward interactions with benzodiazepines and may indeed completely abolish their ataxic action, seen at therapeutic, and especially toxic concentrations. They showed a safe

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behavioral profile and prevented the ataxic effects of benzodiazepines like diazepam, suggesting their potential to counteract such effects at therapeutic and potentially toxic concentrations.

Reference: Basic Clin Pharmacol Toxicol. 2022 Dec;131(6):514-524. <https://pubmed.ncbi.nlm.nih.gov/36180380/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.