

# Product data sheet



MedKoo Cat#: 573395 Name: AZD-8418 CAS: 1198309-73-7 Chemical Formula: C <sub>19</sub> H <sub>20</sub> ClN <sub>3</sub> O <sub>3</sub> Exact Mass: 373.1193 Molecular Weight: 373.837		
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:

AZD-8418 is an mGlu2 receptor positive allosteric modulators that attenuates nicotine-taking and nicotine-seeking behavior. Acute treatment with AZD8418 (0.37, 1.12, 3.73, 7.46, and 14.92 mg/kg) and AZD8529 (1.75, 5.83, 17.5, and 58.3 mg/kg) decreased nicotine self-administration and had no effect on food-maintained responding. Chronic treatment with AZD8418 attenuated nicotine self-administration, but tolerance to this effect developed quickly. The inhibition of nicotine self-administration by chronic AZD8529 administration persisted throughout the 14 days of treatment. Chronic treatment with either PAMs inhibited food self-administration. AZD8418 (acute) and AZD8529 (acute and subchronic) blocked cue-induced reinstatement of nicotine- and food-seeking behavior.

## 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
TBD	TBD	TBD

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.67 mL	13.37 mL	26.75 mL
5 mM	0.53 mL	2.67 mL	5.35 mL
10 mM	0.27 mL	1.34 mL	2.67 mL
50 mM	0.05 mL	0.27 mL	0.53 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

TBD

In vivo study

1. Li X, D'Souza MS, Niño AM, Doherty J, Cross A, Markou A. Attenuation of nicotine-taking and nicotine-seeking behavior by the mGlu2 receptor positive allosteric modulators AZD8418 and AZD8529 in rats. *Psychopharmacology (Berl)*. 2016 May;233(10):1801-14. doi: 10.1007/s00213-016-4220-2. Epub 2016 Feb 13. PMID: 26873083.

## 7. Bioactivity

Biological target:

AZD-8418 is an mGlu2 receptor positive allosteric modulator.

In vitro activity

TBD

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## In vivo activity

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Acute treatment with AZD8418 (0.37, 1.12, 3.73, 7.46, and 14.92 mg/kg) and AZD8529 (1.75, 5.83, 17.5, and 58.3 mg/kg) decreased nicotine self-administration and had no effect on food-maintained responding in rats. Chronic treatment with AZD8418 attenuated nicotine self-administration, but tolerance to this effect developed quickly.

Reference: Psychopharmacology (Berl). 2016 May;233(10):1801-14. <https://pubmed.ncbi.nlm.nih.gov/26873083/>

*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.*