



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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AZD-6280

## Chemical Properties

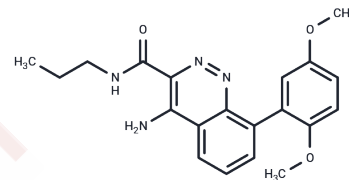
CAS No. : 942436-93-3

Formula: C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 366.41

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | AZD6280 is a novel, subtype-selective GABAA $\alpha$ 2/3 receptor positive modulators, used for treatment of generalized anxiety disorder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Targets(IC <sub>50</sub> ) | GABA Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| In vivo                    | The [ <sup>11</sup> C]flumazenil binding was reduced in a dose-dependent, saturable manner by AZD6280. Maximum receptor occupancy could be reached for AZD6280 without causing sedation or cognitive impairment. The K <sub>i,plasma</sub> estimates for AZD6280 was 440 nmol/l [1].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Animal Research            | Two PET studies, using high-resolution research tomography (HRRT) and the radioligand [ <sup>11</sup> C]flumazenil, were performed in 12 subjects at baseline and after administration of single oral doses of AZD7325 (0.2 to 30 mg) and AZD6280 (5 to 40 mg). PET images were analyzed using a simplified reference tissue model, and regional binding potentials (BPND) were obtained. The relationship between plasma concentration of AZD7325 or AZD6280 and GABAA receptor occupancy was described by hyperbolic function, and K <sub>i,plasma</sub> (plasma concentration required for 50% receptor occupancy) was estimated. Assessments of safety and tolerability included recording of adverse events, vital signs, electrocardiogram, and laboratory tests[1]. |

## Solubility Information

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Solubility | DMSO: 25 mg/mL (68.23 mM),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------|

## A DRUG SCREENING EXPERT

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7292 mL | 13.6459 mL | 27.2918 mL |
| 5 mM  | 0.5458 mL | 2.7292 mL  | 5.4584 mL  |
| 10 mM | 0.2729 mL | 1.3646 mL  | 2.7292 mL  |
| 50 mM | 0.0546 mL | 0.2729 mL  | 0.5458 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Jucaite A , Cselényi, Zsolt, Lappalainen J , et al. GABA<sub>A</sub> receptor occupancy by subtype selective GABA<sub>A</sub>  $\alpha$ 2, 3 modulators: PET studies in humans[J]. Psychopharmacology, 2017, 234(4):707-716.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

**This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use**

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