

AZ12216052

## Chemical Properties

CAS No. : 1290628-31-7

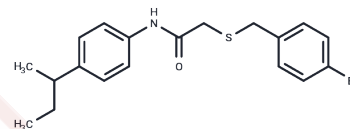
Formula: C<sub>19</sub>H<sub>22</sub>BrNOS

Molecular Weight: 392.35

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AZ12216052 is a GRP8 antagonist with anxiolytic and anti-inflammatory activity and can be used to study obesity and metabolic disorders.
Targets(IC50)	GluR, GPCR
In vitro	In UN- and RA-SH-SY5Y cells, AZ 12216052 (0.01-1 μM; 48 hours) increased cell viability at 0.1 μM and protected undifferentiated neuroblastoma cells against the damaging effects of Iri or Cis[2].
In vivo	AZ 12216052 (10 mg/kg; intraperitoneal injection; single dose, 2 hours before testing) reduced elevated anxiety levels in ApoE-/- and C57BL/6j mice in the zero maze without affecting their speed, and also decreased the acoustic startle response[3].

## Solubility Information

Solubility	DMSO: 80 mg/mL (203.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5487 mL	12.7437 mL	25.4874 mL
5 mM	0.5097 mL	2.5487 mL	5.0975 mL
10 mM	0.2549 mL	1.2744 mL	2.5487 mL
50 mM	0.051 mL	0.2549 mL	0.5097 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Reed BT, et al. Differential modulation of retinal ganglion cell light responses by orthosteric and allosteric metabotropic glutamate receptor 8 compounds. *Neuropharmacology*. 2013 Apr;67:88-94.
- Jantas D, et al. Allosteric and Orthosteric Activators of mGluR8 Differentially Affect the Chemotherapeutic-Induced Human Neuroblastoma SH-SY5Y Cell Damage: The Impact of Cell Differentiation State. *Basic Clin Pharmacol Toxicol*. 2018 Oct;123(4):443-451.
- Duvoisin RM, et al. Acute pharmacological modulation of mGluR8 reduces measures of anxiety. *Behav Brain Res*. 2010 Oct 15;212(2):168-73.
- Duvoisin RM, et al. Opposing roles of mGluR8 in measures of anxiety involving non-social and social challenges. *Behav Brain Res*. 2011 Aug 1;221(1):50-4.

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