

Product Data Sheet

Product Name: AZ 12216052

Cat. No.: GC46092

Chemical Properties

Cas. No. 1290628-31-7

SMILES BrC1=CC=C(CSCC(=O)N(C2=CC=C(C(C)CC)C=C2)C=C2)C=C1

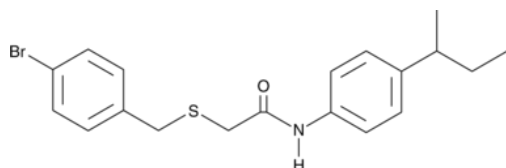
Formula C₁₉H₂₂BrNOS M.Wt 392.4

Solubility DMSO : 100 mg/mL (254.87 mM; Storage Store at -20°C
Need ultrasonic)

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the
tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or
Condition blue ice upon request.

Structure



Background

AZ 12216052 is a positive allosteric modulator of metabotropic glutamate receptor 8 (mGluR8).¹ It potentiates glutamate-induced [³⁵S]GTPγS binding in GHEK cells expressing human mGluR8b (EC₅₀ = 1 μM). In a cell-based model of Parkinson's disease, AZ 12216052 inhibits MPP⁺-induced decreases in the viability of undifferentiated SH-SY5Y cells when used at concentrations ranging from 0.001 to 1 μM and in retinoic acid-differentiated SH-SY5Y cells at 0.1 and 1 μM.² AZ 12216052 (10 mg/kg) increases the time spent in the open areas of the elevated zero maze and reduces the acoustic startle response in mice, indicating anxiolytic-like activity in response to avoidable and unavoidable anxiogenic stimuli, respectively.¹

[1. Duvoisin, R.M., Pfankuch, T., Wilson, J.M., et al. Acute pharmacological modulation of mGluR8 reduces measures of anxiety. *Behav. Brain Res.* 212(2), 168-173 (2010).|2. Jantas, D., Greda, A., Golda, S., et al. Neuroprotective effects of metabotropic glutamate receptor group II and III activators against MPP(+)-induced cell death in human neuroblastoma SH-SY5Y cells: The impact of cell

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

differentiation state. Neuropharmacology 83, 36-53 (2014).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA