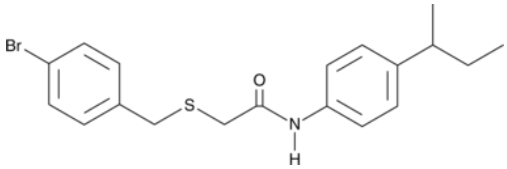
Product Data Sheet

Product Name: AZ 12216052
Cat. No.: GC46092

Chemical Properties

Cas. No.	1290628-31-7		
SMILES	BrC1=CC=C(CSCC(NC2=CC=C(C(C)CC)C=C2)=O)C=C1		
Formula	C19H22BrNOS	M.Wt	392.4
Solubility	DMSO : 100 mg/mL (254.87 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or 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

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