

BMT-145027

## Chemical Properties

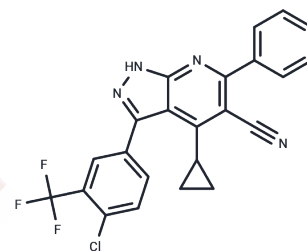
CAS No. : 2018282-44-3

Formula: C<sub>23</sub>H<sub>14</sub>ClF<sub>3</sub>N<sub>4</sub>

Molecular Weight: 438.83

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	BMT-145027 is a positive allosteric modulator of mGluR5 without inherent agonist activity (EC <sub>50</sub> = 47 nM).
Targets(IC <sub>50</sub> )	GluR
In vitro	BMT-145027 lacks inherent mGluR5 agonist activity when tested at concentrations up to 16 μM. BMT-145027 exhibits high MsLM stability (85% remaining) and a modest decrease in planarity (Fsp3 = 0.17)[1].
In vivo	BMT-145027 (30 mg/kg) leads to a significant increase in time spent with the novel object, with an apparent trend in novel object preference at 10 mg/kg. Satellite animals (BMT-145027: 30 mg/kg) indicates a total plasma concentration of 2800 nM[1].

## Solubility Information

Solubility	DMSO: 2 mg/mL (4.56 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2788 mL	11.3939 mL	22.7879 mL
5 mM	0.4558 mL	2.2788 mL	4.5576 mL
10 mM	0.2279 mL	1.1394 mL	2.2788 mL
50 mM	0.0456 mL	0.2279 mL	0.4558 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

Hill MD, et al. Development of 1H-Pyrazolo[3,4-b]pyridines as Metabotropic Glutamate Receptor 5 Positive Allosteric Modulators. ACS Med Chem Lett. 2016 Oct 3;7(12):1082-1086.

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

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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481