

Product Data Sheet

Product Name: AZD6538

Cat. No.: GC72900

Chemical Properties

Cas. No. 453566-30-8

Formula $C_{15}H_6FN_5O$

M.Wt 291.24

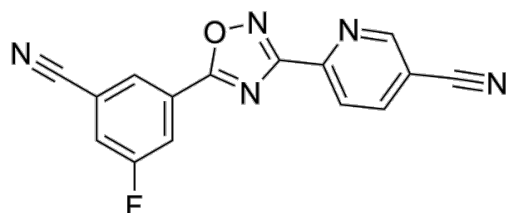
Solubility DMSO : 4 mg/mL (13.73 mM;
ultrasonic and warming and heat to
60°C)

Storage 4°C, protect from light

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

AZD6538 is a potent, selective and brain penetrant mGluR5 negative allosteric modulator. AZD6538 inhibits DHPG -stimulated intracellular Ca^{2+} release in HEK cells expressing rat or human mGluR5, with IC_{50} values of 3.2 and 13.4 nM for rat mGluR5 and human mGluR5, respectively. AZD6538 can be used for the research of neuropathic pain.

AZD6538 completely reverses the glutamate-stimulated (EC_{80} , 80 μ M) phosphatidyl inositol drolysis

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

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in human mGluR5-GHEK cells in a concentration-dependent manner, with an IC₅₀ of 51 ± 3 nM[1].

References:

[1]. Raboisson P, et al. Discovery and characterization of AZD9272 and AZD6538-Two novel mGluR5 negative allosteric modulators selected for clinical development. Bioorg Med Chem Lett. 2012 Nov 15;22(22):6974-9.

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