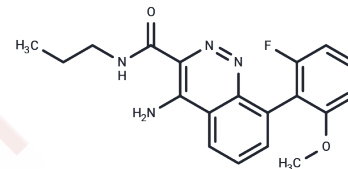


AZD7325

Chemical Properties

CAS No. : 942437-37-8
 Formula: C₁₉H₁₉FN₄O₂
 Molecular Weight: 354.38
 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	AZD7325 (AZD-7325) is a GABA-A α 2,3 -selective receptor modulator.
Targets(IC50)	GABA Receptor,Cytochromes P450
In vivo	AZD7325 on synaptic responses was more prominent in mice on the 129S6/SvEvTac background strain that has been demonstrated to be seizure resistant in the model of Dravet syndrome (Scn1a+/?) and in which the α 2 GABAA receptor subunits are higher relative to in the C57BL/6J strain.?Consistent with this, treatment of mice with AZD7325 is associated with a higher temperature threshold for hyperthermia-induced seizures in Scn1a+/? mice without apparent sedative effects.?Our results in a model system indicate that selective targeting α 2 is a potential therapeutic option for Dravet syndrome[1].
Animal Research	Animal Model:Male and female P18 - P20 F1.Scn1a+/- mice. Dosage:10, 17.8 or 31.6 mg/kg. Administration:Oral administration[1]

Solubility Information

Solubility	DMSO: 9 mg/mL (25.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.82 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8218 mL	14.1091 mL	28.2183 mL
5 mM	0.5644 mL	2.8218 mL	5.6437 mL
10 mM	0.2822 mL	1.4109 mL	2.8218 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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

ProfileToshihiro Nomura, et al. Potentiating $\alpha 2$ subunit containing perisomatic GABAA receptors protects against seizures in a mouse model of Dravet Syndrome

Chen X, et al. The central nervous system effects of the partial GABA-A $\alpha 2,3$ -selective receptor modulator AZD7325 in comparison with lorazepam in healthy males.Br J Clin Pharmacol. 2014 Dec;78(6):1298-314.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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