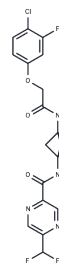


2BAct

Chemical Properties

CAS No. :	2143542-28-1
Formula:	C ₁₉ H ₁₆ ClF ₃ N ₄ O ₃
Molecular Weight:	440.8
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	2BAct is a novel eif2b activator, preventing neurological defects caused by a chronic integrated stress response
Targets(IC50)	PERK

Solubility Information

Solubility	DMSO: 150 mg/mL (340.29 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: 10 mg/mL (22.69 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (22.69 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.2686 mL	11.343 mL	22.686 mL
5 mM	0.4537 mL	2.2686 mL	4.5372 mL
10 mM	0.2269 mL	1.1343 mL	2.2686 mL
50 mM	0.0454 mL	0.2269 mL	0.4537 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

Wong YL, LeBon L, Basso AM, Kohlhaas KL, Nikkel AL, Robb HM, Donnelly-Roberts DL, Prakash J, Swensen AM, Rubinstein ND, Krishnan S, McAllister FE, Haste NV, O'Brien JJ, Roy M, Ireland A, Frost JM, Shi L, Riedmaier S, Martin K, Dart MJ, Sidrauski C. eIF2B activator prevents neurological defects caused by a chronic integrated stress response. *Elife*. 2019 Jan 9;8. pii. e42940.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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