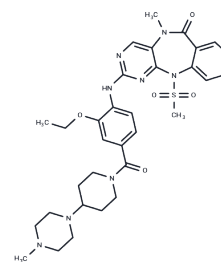


AX-15836

Chemical Properties

CAS No. : 2035509-96-5
 Formula: C₃₂H₄₀N₈O₅
 Molecular Weight: 648.78
 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	AX-15836 is an inhibitor of ERK5 (IC ₅₀ : 8 nM).
Targets(IC ₅₀)	ERK
In vitro	AX15836 was completely ineffective (EC ₅₀ >10 μM) to suppress inflammatory cytokine response, suggesting that it was the BRD inhibition component of the compounds that mediated cytokine reduction. AX-15836 shows more than 1,000-fold selectivity for ERK5 over a panel of over 200 kinases and it also shows similar intracellular potency (4–9 nM) across all cells tested, including peripheral blood mononuclear cells (PBMCs), endothelial cells, and oncogenic cell lines. It also exhibits selectivity over BRD4 with a K _d of 3,600 nM. In HUVEC and HeLa cell types, samples treated with AX15836 shows very few genes to be differentially expressed. AX15836 could clearly inhibit the EGF-stimulated, phosphorylated form of ERK5 in HeLa cells[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (154.14 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: 4 mg/mL (6.17 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	1.5414 mL	7.7068 mL	15.4135 mL
5 mM	0.3083 mL	1.5414 mL	3.0827 mL
10 mM	0.1541 mL	0.7707 mL	1.5414 mL
50 mM	0.0308 mL	0.1541 mL	0.3083 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

Lin EC, et al. ERK5 kinase activity is dispensable for cellular immune response and proliferation. Proc Natl Acad Sci U S A. 2016 Oct 18;113(42):11865-11870.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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