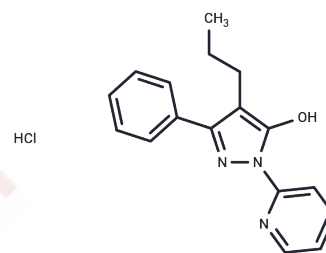


APX-115

Chemical Properties

CAS No. : 1395946-75-4
 Formula: C₁₇H₁₈ClN₃O
 Molecular Weight: 315.8
 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	APX-115 (Ewha-18278) (Ewha-18278) is a potent, orally active pan NADPH oxidase (Nox) inhibitor (Kis: 1.08 μM, 0.57 μM, and 0.63 μM for Nox1, Nox2, and Nox4). APX-115 effectively prevents kidney injury.
Targets(IC50)	NADPH,NADPH-oxidase
In vitro	In the mouse podocyte cell line, APX-115 (5μM; 60min) almost completely suppresses high glucose-induced proinflammatory and profibrotic molecule expression. In the kidney, APX-115 attenuates Nox gene upregulation and protein expression while improving inflammatory and fibrotic processes [2].
In vivo	APX-115 treatment decreases the urinary excretion of albumin and plasma creatinine levels. APX-115 (oral gavage; 60mg/kg/day; for 12 weeks) significantly improves insulin resistance in diabetic mice[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (284.99 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: 3.3 mg/mL (10.45 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	3.1666 mL	15.8328 mL	31.6656 mL
5 mM	0.6333 mL	3.1666 mL	6.3331 mL
10 mM	0.3167 mL	1.5833 mL	3.1666 mL
50 mM	0.0633 mL	0.3167 mL	0.6333 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

Kwon G, et al. A novel pan-Nox inhibitor, APX-115, protects kidney injury in streptozotocin-induced diabetic mice: possible role of peroxisomal and mitochondrial biogenesis. *Oncotarget*. 2017 Jun 16;8(43):74217-74232.

Cha JJ, et al. APX-115, a first-in-class pan-NADPH oxidase (Nox) inhibitor, protects db/db mice from renal injury. *Lab Invest*. 2017 Apr;97(4):419-431.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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