

RU 58841

Chemical Properties

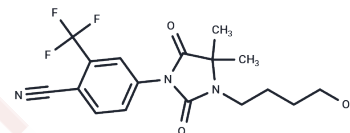
CAS No. : 154992-24-2

Formula: C₁₇H₁₈F₃N₃O₃

Molecular Weight: 369.34

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	RU 58841 (PSK-3841) is a specific androgen receptor antagonist with significant effects on hair regrowth.
Targets(IC50)	Androgen Receptor
Kinase Assay	In vitro Protein Kinase, PI3K, and mTOR Assays: PI3K α , β , and δ proteins are composed of the iSH2 domain of p85 NH ₂ -terminally fused to the full-length protein p110 protein, with the exception of α that also does not contain the last 20 amino acids. PI3K γ is produced as full-length protein deleted for its first 144 amino acids. All constructs are fused to a COOH-terminal His tag for convenient purification and then cloned into the pBlue-Bac4.5 (for α , β , and δ isoforms) or pVL1393 (for γ isoform) plasmids. The different vectors are then cotransfected with BaculoGold WT genomic DNA using methods recommended by the vendor for production of the respective recombinant baculoviruses and proteins. BEZ235 are tested for their activity against PI3K using a Kinase-Glo assay. The kinase reaction is done in 384-well black plate. Each well is loaded with 50 μ L of test items (in 90% DMSO) and 5 μ L reaction buffer containing 10 μ g/mL PI substrate (l- α -phosphatidylinositol; Avanti Polar Lipids; prepared in 3% octyl-glucoside) and the PI3K proteins (10, 25, 10, and 150 nM of p110 α , p110 β , p110 δ , and p110 γ , respectively) are then added to it. The reaction is started by the addition of 5 μ L of 1 μ M ATP prepared in the reaction buffer and is incubated for either 60 (for p110 α , p110 β , and p110 δ) or 120 min (for p110 γ). It is terminated by the addition of 10 μ L Kinase-Glo buffer. The plates are then read in a Synergy 2 reader for luminescence detection.

Solubility Information

Solubility	DMSO: 40 mg/mL (108.3 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: 2 mg/mL (5.42 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	2.7075 mL	13.5377 mL	27.0753 mL
5 mM	0.5415 mL	2.7075 mL	5.4151 mL
10 mM	0.2708 mL	1.3538 mL	2.7075 mL
50 mM	0.0542 mL	0.2708 mL	0.5415 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

Battmann T, et al. J Steroid Biochem Mol Biol. 1994 Jan;48(1):55-60.2. Münster U, et al. Pharmazie. 2005 Jan;60(1):8-12.

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