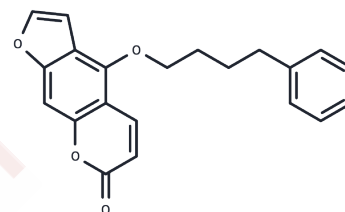


Psora 4

Chemical Properties

CAS No. :	724709-68-6
Formula:	C ₂₁ H ₁₈ O ₄
Molecular Weight:	334.37
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Psora 4 (5-(4-Phenylbutoxy)psoralen) is a selective and potent Kv1.3 blocker, a caloric restriction mimetic with immunosuppressive activity that enhances neural progenitor cell differentiation and maturation.
Targets(IC50)	Potassium Channel,Sodium Channel
In vitro	Psora 4 blocks Kv1.3 in a dose-dependent manner by preferentially binding to the C-type inactivation state of the channel with an EC ₅₀ value of 3 nM.Psora 4 is the most potent small molecule Kv1.3 blocker known. It is 17- to 70-fold more selective for Kv1.3 than the closely related Kv1 family of channels (Kv1.1, Kv1.2, Kv1.4, and Kv1.7), with the exception of Kv1.5, which is selective for Kv1.5 (EC ₅₀ of 7.7 nM). Psora 4 selectively inhibits the proliferation of human and rat myelin-specific effector memory T cells with EC ₅₀ values of 25 and 60 nM, respectively, but does not persistently inhibit peripheral blood naïve and central memory T cells. [1]
In vivo	In an in vivo rat toxicity assay, 33 mg/kg Psora 4 administered subcutaneously five times daily did not show any signs of acute toxicity. [1]

Solubility Information

Solubility	DMSO: 8 mg/mL (23.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9907 mL	14.9535 mL	29.907 mL
5 mM	0.5981 mL	2.9907 mL	5.9814 mL
10 mM	0.2991 mL	1.4953 mL	2.9907 mL
50 mM	0.0598 mL	0.2991 mL	0.5981 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

Vennekamp J, et al. Kv1.3-blocking 5-phenylalkoxypsoralens: a new class of immunomodulators. Mol Pharmacol. 2004 Jun;65(6):1364-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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