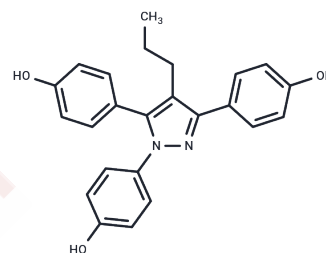


Propyl pyrazole triol

Chemical Properties

CAS No. :	263717-53-9
Formula:	C ₂₄ H ₂₂ N ₂ O ₃
Molecular Weight:	386.44
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	Propyl pyrazole triol (PPT) is a selective agonist of estrogen receptor alpha (ER α), exhibiting a relative binding affinity of 49% for ER α , which is approximately 410 times higher than its affinity for estrogen receptor beta (ER β : 0.12%).
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor
In vitro	In ER α -U2OS-Luc cells, the EC ₅₀ of Propyl pyrazole triol for the ER α -dependent response is 140 pM[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (646.93 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 (25.88 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	2.5877 mL	12.9386 mL	25.8772 mL
5 mM	0.5175 mL	2.5877 mL	5.1754 mL
10 mM	0.2588 mL	1.2939 mL	2.5877 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 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

Influence of cellular ERalpha/ERbeta ratio on the ERalpha-agonist induced proliferation of human T47D breast cancer cells.

Stauffer SR, et al. Pyrazole ligands: structure-affinity/activity relationships and estrogen receptor-alpha-selective agonists. J Med Chem. 2000 Dec 28;43(26):4934-47.

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