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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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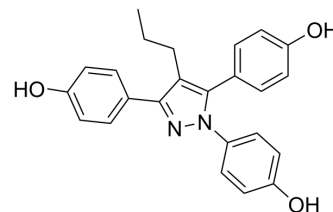
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Propyl pyrazole triol

Cat. No.:	HY-100689
CAS No.:	263717-53-9
Molecular Formula:	C ₂₄ H ₂₂ N ₂ O ₃
Molecular Weight:	386.44
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (258.77 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 10 mg/mL (25.88 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Propyl pyrazole triol (PPT) is a selective estrogen receptor alpha (ERα) agonist. The relative binding affinity of Propyl pyrazole triol for ERα (ERα: 49%) around 410 times higher compared with estrogen receptor beta (ERβ: 0.12%) ^{[1][2]} .
IC ₅₀ & Target	ERα
In Vitro	The EC ₅₀ of Propyl pyrazole triol for the ERα-dependent response is 140 pM in ERα-U2OS-Luc cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Lett. 2021 Feb 1;498:54-69.
- Int J Biol Sci. 2022; 18(5): 1961-1973.
- Ecotoxicol Environ Saf. 2023 May 23;259:115060.
- J Agric Food Chem. 2021 Nov 24.
- J Clin Endocrinol Metab. 2021 Feb 1;dgab020.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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