

Prinaberel

Chemical Properties

CAS No.:	524684-52-4
Formula:	C ₁₅ H ₁₀ FN ₃ O ₃
Molecular Weight:	271.24
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Prinaberel (ERB-041) is an effective and selective ER β agonist and >200-fold selective for ER β .
In vitro	Treatment with ER β selective estrogen agonists liquiritigenin and ERB-041 reduced the ability to invade a reconstituted basement membrane and to migrate in response to the cellular stimulus [1]. Pretreatment the PMs with ERB-041 resulted in significant inhibition of LPS-induced iNOS expression and NF-kappaB activation by preventing its nuclear translocation [3].
In vivo	Tumor numbers and volume were reduced by 60% and 84%, respectively, in the Erb-041-treated group as compared with UVB (alone) control. This inhibition in tumorigenesis was accompanied by a decrease in proliferating cell nuclear antigen (PCNA), cyclin D1, VEGF, and CD31, and an increase in apoptosis [2].

Solubility Information

Solubility	DMSO: 38 mg/mL (140.1 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.687 mL	18.434 mL	36.868 mL
5 mM	0.737 mL	3.687 mL	7.374 mL
10 mM	0.369 mL	1.843 mL	3.687 mL
50 mM	0.074 mL	0.369 mL	0.737 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Hinsche O, et al. Estrogen receptor β selective agonists reduce invasiveness of triple-negative breast cancer cells. *Int J Oncol.* 2015 Feb;46(2):878-84.
2. Chaudhary SC, et al. Erb-041, an estrogen receptor- β agonist, inhibits skin photocarcinogenesis in SKH-1 hairless mice by downregulating the WNT signaling pathway. *Cancer Prev Res (Phila).* 2014 Feb;7(2):186-98.
3. Xiu-li W, et al. ERB-041, a selective ER beta agonist, inhibits iNOS production in LPS-activated peritoneal macrophages of endometriosis via suppression of NF-kappaB activation. *Mol Immunol.* 2009 Jul;46(11-12):2413-8.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481