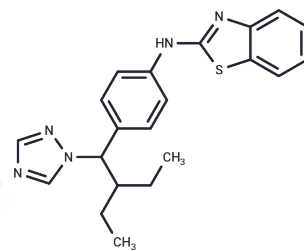


## Talarozole

## Chemical Properties

CAS No. :	201410-53-9
Formula:	C <sub>21</sub> H <sub>23</sub> N <sub>5</sub> S
Molecular Weight:	377.51
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	Talarozole (R115866) is an oral systemic all-trans retinoic acid metabolism blocking agent (RAMBA) that inhibits CYP26A1 and CYP26B1 with IC50s of 5.4 and 0.46 nM, respectively, for treating acne, psoriasis, and other keratinization disorders.
Targets(IC50)	Retinoid Receptor, Autophagy, Cytochromes P450

## Solubility Information

Solubility	DMSO: 36 mg/mL (95.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.3 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	2.6489 mL	13.2447 mL	26.4894 mL
5 mM	0.5298 mL	2.6489 mL	5.2979 mL
10 mM	0.2649 mL	1.3245 mL	2.6489 mL
50 mM	0.053 mL	0.2649 mL	0.5298 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

Elizabeth Pavez Loriè, Chamcheu J C , Vahlquist A , et al. Both all-trans retinoic acid and cytochrome P450 (CYP26) inhibitors affect the expression of vitamin A metabolizing enzymes and retinoid biomarkers in organotypic epidermis[J]. Archives of Dermatological Research, 2009, 301(7):475-485.

Elizabeth Pavez Loriè, Li H , Vahlquist A , et al. The involvement of cytochrome p450 (CYP) 26 in the retinoic acid metabolism of human epidermal keratinocytes[J]. Biochim Biophys Acta, 2009, 1791(3):0-228.

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