
Product Data Sheet

Product Name: Talarozole R enantiomer

Cat. No.: GC37727

Chemical Properties

Cas. No. 870093-23-5

SMILES CCC(CC)[C@H](C1=CC=C(NC2=NC3=CC=CC=C3S2)C=C1)N4N=CN=C4Formula C₂₁H₂₃N₅S

M.Wt 377.51

Solubility DMSO: ≥ 51 mg/mL (135.10 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Talarozole R enantiomer is a potent and selective inhibitor of cytochrome P450 26-mediated breakdown of endogenous all-trans retinoic acid for the treatment of psoriasis and acne. Target: CYP26

in vitro: Talarozole R enantiomer treatment increased the mRNA expression of CRABP2, KRT4, CYP26A1 and CYP26B1 dose dependently, and decreased the expression of KRT2 and IL-1α compared with vehicle-treated skin. No mRNA change in retinol-metabolizing enzymes was obtained. There was no induction of epidermal thickness or overt skin inflammation in talarozole-treated skin. Immunofluorescence analysis confirmed an upregulation of KRT4 protein, but no upregulation of CYP26A1 and CYP26B1 expression was detected [1] [2].

in vivo: Talarozole R enantiomer slightly diffused into the skin only when dissolved in propylene glycol, isopropyl myristate or ethanol. Although only 0.1% of the dose applied was found in the skin itself after 12-24 h, this was sufficient to achieve local concentrations well above the half-maximal inhibitory concentration value for talarozole. The distribution of talarozole within the skin was investigated: 80% was located in the epidermis, while the remaining 20% was found in the dermis [3].

[1]. Pavez LoriÈ E, Cools M, Borgers M, Topical treatment with CYP26 inhibitor talarozole

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

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(R115866) dose dependently alters the expression of retinoid-regulated genes in normal human epidermis. Br J Dermatol. 2009 Jan;160(1):26-36 [2]. Geria AN, Scheinfeld NS. Talarozole, a selective inhibitor of P450-mediated all-trans retinoic acid for the treatment of psoriasis and acne. Curr Opin Investig Drugs. 2008 Nov;9(11):1228-37. [3]. Baert B, De Spiegeleer B. Local skin pharmacokinetics of talarozole, a new retinoic acid metabolism-blocking agent. Skin Pharmacol Physiol. 2011;24(3):151-9.

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