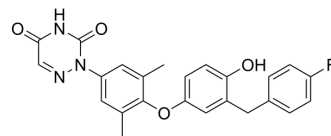


PF-00277343

| | |
|--------------------|---|
| Cat. No.: | HY-118978 |
| CAS No.: | 332926-04-2 |
| Molecular Formula: | C ₂₄ H ₂₀ FN ₃ O ₄ |
| Molecular Weight: | 433.43 |
| Target: | Thyroid Hormone Receptor |
| Pathway: | Vitamin D Related/Nuclear Receptor |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | PF-00277343 is a selective and skin-penetrable THR-β (K _i : 0.51 nM for THR-β, 8.0 nM for THR-α) agonist. PF-00277343 is effective against androgenetic alopecia in animal models ^[1] . |
| In Vitro | PF-00277343 is rapidly metabolized in rat liver microsomes (HLM t _{1/2} = 40 min), in rat hepatocytes, its half-life is 45 min, clearance CL _{blood} is 51 mL/min/kg and CL _{int} is 149 mL/min/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | PF-00277343 (1 mg/mL and 0.1 mg/mL, single topical application) is effective in inducing hair growth in C3H female mice ^[1] . PF-00277343 (i.v., 0.5 mg/kg) shows the mean systemic plasma clearance of 40 mL/min/kg, the mean apparent volume of distribution at steady state of 4.88 mL/min/kg, and the mean terminal phase half-life of 2.73 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Li JJ, et al. Thyroid receptor agonists for the treatment of androgenetic alopecia. *Bioorg Med Chem Lett*. 2010 Jan 1;20(1):306-8.

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

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