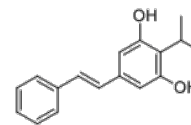


Product Name : Benvitimod
Cat. No. : PC-60054
CAS No. : 79338-84-4
Molecular Formula : C₁₇H₁₈O₂
Molecular Weight : 254.329
Target : Aryl hydrocarbon Receptor (AhR)
Solubility : 10 mM in DMSO



Biological Activity

Benvitimod (GSK-2894512, Tapinarof) is a natural **aryl hydrocarbon receptor** (AhR) agonist with anti-inflammatory properties.

Benvitimod binds and activates AhR in multiple cell types, moderates proinflammatory cytokine expression in stimulated peripheral blood CD4⁺ T cells and ex vivo human skin, and impacts barrier gene expression in primary human keratinocytes. Benvitimod shows no impact on imiquimod-induced skin inflammation in AhR-deficient mice.

References

- Bissonnette R, et al. *Arch Dermatol*. 2010 Apr;146(4):446-9.
Bissonnette R, et al. *J Eur Acad Dermatol Venereol*. 2012 Dec;26(12):1516-21.
Smith SH, et al. *J Invest Dermatol*. 2017 Oct;137(10):2110-2119.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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