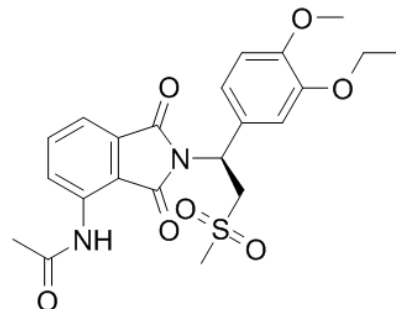


Product Name : Apremilast
Cat. No. : PC-42891
CAS No. : 608141-41-9
Molecular Formula : C₂₂H₂₄N₂O₇S
Molecular Weight : 460.5002
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

Apremilast (CC-10004) is a potent, orally active **PDE4** inhibitor with IC₅₀ of 74 nM, inhibits TNF-α production in LPS-stimulated hPBMCs with IC₅₀ of 77 nM.

Apremilast (CC-10004) inhibits PBMC production of the chemokines CXCL9 and CXCL10, IFN-γ and TNF-α, and IL-2, IL-12 and IL-23, also inhibits TNF-α by NK cells and keratinocytes.

Apremilast (CC-10004) significantly reduces epidermal thickness and proliferation, decreases the general histopathological appearance of psoriasiform features and reduces expression of TNF-α, human leukocyte antigen-DR and intercellular adhesion molecule-1 in the lesioned skin in model of psoriasis.

References

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Gordon JN, et al. *J Crohns Colitis.* 2009 Sep;3(3):175-82.

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

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