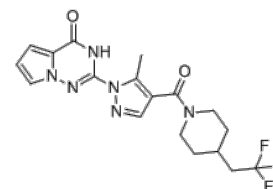


Product Name : QM385
Cat. No. : PC-35829
CAS No. :
Molecular Formula : C₁₈H₁₉F₃N₆O₂
Molecular Weight : 408.385
Target : Other Targets
Solubility :



Biological Activity

QM385 (QM-385) is an orally available, potent, specific **sepiapterin reductase (SPR)** inhibitor (binding IC₅₀=1.49 nM) to limit tetrahydrobiopterin (BH₄) production, effectively inhibits the proliferation of human CD4⁺ T cells; QM385 is structurally distinct from SPRI3, does not inhibit a panel of physiologically important targets or closely related reductases; potently inhibits BH₄ levels in anti-CD3/28-stimulated mouse splenocytes and human PBMCs with IC₅₀ of 35 nM and 74 nM respectively; QM385 treatment resulted in markedly less proliferation of CD4⁺ T cells in vitro, oral administration of QM385 to mice for 3 days greatly reduced the number of inflammatory T cells and eosinophils in the ovalbumin-induced and house dust mite (HDM) airway allergic inflammation models.

References

Cronin SJF, et al. *Nature*. 2018 Nov;563(7732):564-568.

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

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