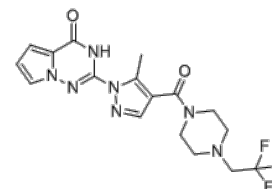


Product Name : QM385
Cat. No. : PC-35829
CAS No. : 2093421-02-2
Molecular Formula : C₁₇H₁₈F₃N₇O₂
Molecular Weight : 409.373
Target : Other Targets
Solubility : 10 mM in DMSO



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.

QM385 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!

E-mail: tech@probechem.com