

Product Data Sheet

Product Name: QM385
Cat. No.: GC37049

Chemical Properties

Cas. No. 2296727-52-9

SMILES O=C1NC(N2N=CC(C(N3CCC(CC(F)(F)F)CC3)=O)=C2C)=NN4C1=CC=C4

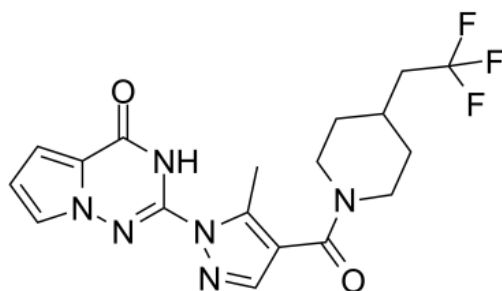
Formula $C_{18}H_{19}F_3N_6O_2$ M.Wt 408.38

Solubility DMSO: 125 mg/mL (305.35 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

QM385 is a potent sepiapterin reductase (SPR) inhibitor with an IC₅₀ of 1.49 nM, which blocks T-cell proliferation and autoimmunity at nanomolar potency and with good oral bioavailability[1]. IC₅₀: 1.49 nM (Sepiapterin reductase)[1]

QM385 effectively inhibits the proliferation of human CD4⁺ T cells at low doses[1].

[1]. Cronin SJF, et al. The metabolite BH4 controls T cell proliferation in autoimmunity and cancer.

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

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Nature. 2018 Nov;563(7732):564-568.

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