

Product Data Sheet

Product Name: AS1810722

Cat. No.: GC61574

Chemical Properties

Cas. No. 909561-15-5

SMILES O=C(N)CN1CCN(C2=CC=C(NC3=NC=C4C(N(CC5=CC(F)=CC(F)=C5)C=C4)=N3)C=C2)CC1

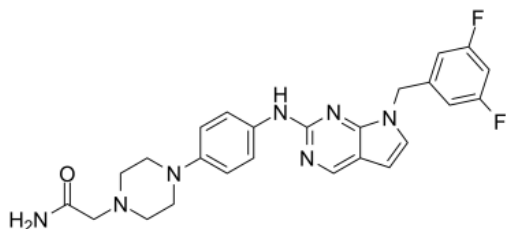
Formula C25H25F2N7O M.Wt 477.51

Solubility DMSO: 62.5 mg/mL (130.89 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

AS1810722 is an orally active and potent STAT6 inhibitor with an IC₅₀ of 1.9 nM. AS1810722 shows a good profile of CYP3A4 inhibition. AS1810722, a derivative of fused bicyclic pyrimidine, has the potential for allergic diseases such as asthma and atopic diseases research[1].

AS1810722 (compound 24) inhibits production of IL-4 with an IC₅₀ of 2.4 nM, but shows no effect on

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production of IFN- γ [1].

AS1810722 (compound 24; 0.03-0.3 mg/kg; orally; 30 min before, and 24h and 48 h after OVA exposure) suppress eosinophil infiltration in the lung in a dose-dependent manner in an antigen-induced mouse asthmatic model[1]. AS1810722 inhibits in vitro Th2 differentiation with an IC₅₀ of 2.4 nM without affecting type 1 helper T (Th1) cell differentiation and eosinophil infiltration in an antigen-induced mouse asthmatic model after oral administration[1]. Animal Model: Female Balb/c mice asthmatic model by intraperitoneal injection of ovalbumin (OVA)-containing aluminum hydroxide gel[1]

[1]. Shinya Nagashima, et al. Novel 7H-pyrrolo[2,3-d]pyrimidine derivatives as potent and orally active STAT6 inhibitors. Bioorg Med Chem. 2009 Oct 1;17(19):6926-36.

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