Stafia-1-dipivaloyloxymethyl ester

Cat. No.: HY-136568

CAS No.: 2582755-72-2

Molecular Formula: $C_{37}H_{48}FO_{13}P$

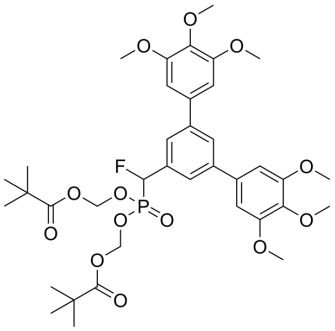
Molecular Weight: 750.74

Target: STAT

Pathway: JAK/STAT Signaling; Stem Cell/Wnt

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (133.20 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3320 mL	6.6601 mL	13.3202 mL
5 mM	0.2664 mL	1.3320 mL	2.6640 mL
10 mM	0.1332 mL	0.6660 mL	1.3320 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Stafia-1-dipivaloyloxymethyl ester (compound 27, 0-200 μM) decreases pSTAT5a expression significantly, and has no obvious inhibition on pSTAT5b[1].

IC_{50} & Target

STAT5a

In Vitro

Stafia-1-dipivaloyloxymethyl ester (compound 27, 0-200 μM) decreases pSTAT5a expression significantly, and has no obvious inhibition on pSTAT5b[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	STAT5a-GFP-transfected K562 cells.

Concentration:	0-200 μM.
Incubation Time:	
Result:	Decreased pSTAT5a expression.

REFERENCES

[1]. Kalaiselvi Natarajan, et al. Stafia-1: A STAT5a-Selective Inhibitor Developed via Docking-Based Screening of in Silico O-Phosphorylated Fragments. Chemistry. 2020 Jan 2;26(1):148-154.

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

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