TFAP

Cat. No.: HY-112731

CAS No.: 1011244-68-0

Molecular Formula: $C_{13}H_{10}F_3N_3O$

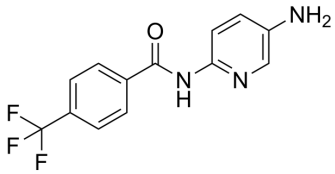
Molecular Weight: 281.23

Target: COX; Endogenous Metabolite

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 155 mg/mL (551.15 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5558 mL	17.7790 mL	35.5581 mL
	5 mM	0.7112 mL	3.5558 mL	7.1116 mL
	10 mM	0.3556 mL	1.7779 mL	3.5558 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.58 mg/mL (9.17 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.58 mg/mL (9.17 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.58 mg/mL (9.17 mM); Clear solution; Need warming

BIOLOGICAL ACTIVITY

Description

TFAP is a selective cyclooxygenase-1 (COX-1) inhibitor, with an IC_{50} of 0.8 μM.

IC_{50} & Target

COX-1

0.8 μM (IC_{50})

In Vitro

TFAP is a selective cyclooxygenase-1 (COX-1) inhibitor, with an IC_{50} of 0.8 μM, while that against COX-2 is over 200 μM.

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

REFERENCES

[1]. Kakuta H, et al. Identification of urine metabolites of TFAP, a cyclooxygenase-1 inhibitor. Bioorg Med Chem Lett. 2010 Mar 15;20(6):1840-3.

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