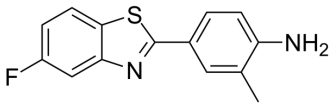
5F-203

Cat. No.:	HY-124421
CAS No.:	260443-89-8
Molecular Formula:	$C_{14}H_{11}FN_2S$
Molecular Weight:	258.31
Target:	Aryl Hydrocarbon Receptor
Pathway:	Immunology/Inflammation
Storage:	Powder -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 (387.13 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8713 mL	19.3566 mL	38.7132 mL
	5 mM	0.7743 mL	3.8713 mL	7.7426 mL
	10 mM	0.3871 mL	1.9357 mL	3.8713 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: ≥ 2.5 mg/mL (9.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5F-203 (NSC-703786) is a cytotoxic molecule that forms DNA adducts and cell cycle arrest. 5F-203 induces aryl hydrocarbon receptor (AhR) signaling and elevates expression of CYP1A1. 5F-203 also increases the levels of reactive oxygen species as well as activates JNK, ERK, and p38[1][2][3].

REFERENCES

[1]. Hutchinson I, et al. Antitumor benzothiazoles. 16. Synthesis and pharmaceutical properties of antitumor 2-(4-aminophenyl)benzothiazole amino acid prodrugs. J Med Chem. 2002 Jan 31;45(3):744-7.

[2]. Hose CD, et al. Induction of CYP1A1 in tumor cells by the antitumor agent 2-[4-amino-3-methylphenyl]-5-fluoro-benzothiazole: a potential surrogate marker for patient sensitivity. Mol Cancer Ther. 2003 Dec;2(12):1265-72.

[3]. Callero MA, et al. Biomarkers of sensitivity to potent and selective antitumor 2-(4-amino-3-methylphenyl)-5-fluorobenzothiazole (5F203) in ovarian cancer. J Cell Biochem. 2013 Oct;114(10):2392-404.

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