Fluorobexarotene

Cat. No.: HY-108525

CAS No.: 1190848-23-7

Molecular Formula: $C_{24}H_{27}FO_2$

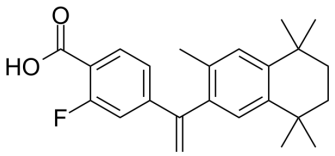
Molecular Weight: 366.47

Target: RAR/RXR

Pathway: Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

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 : 36 mg/mL (98.23 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7287 mL	13.6437 mL	27.2874 mL
	5 mM	0.5457 mL	2.7287 mL	5.4575 mL
	10 mM	0.2729 mL	1.3644 mL	2.7287 mL

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

BIOLOGICAL ACTIVITY

Description

Fluorobexarotene (compound 20) is a potent retinoid-X-receptor (RXR) agonist, with a K_i value of 12 nM and an EC_{50} value of 43 nM for RXRα receptor. Fluorobexarotene possesses an apparent RXR binding affinity that is 75% greater than Bexarotene [1].

REFERENCES

[1]. Wagner CE, et al. Modeling, synthesis and biological evaluation of potential retinoid X receptor (RXR) selective agonists: novel analogues of 4-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydro-2-naphthyl)ethynyl]benzoic acid (bexarotene). J Med Chem. 2009 Oct

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

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