## **GPR40** agonist 6

Cat. No.: HY-147351

CAS No.: 1798751-25-3 Molecular Formula: C<sub>20</sub>H<sub>19</sub>NO<sub>4</sub>

Molecular Weight: 337.37

Target: Free Fatty Acid Receptor

Pathway: GPCR/G Protein

Storage: Powder -20°C 3 years

2 years

-80°C 6 months In solvent

> -20°C 1 month

**Product** Data Sheet

## **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 125 mg/mL (370.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9641 mL	14.8205 mL	29.6410 mL
	5 mM	0.5928 mL	2.9641 mL	5.9282 mL
	10 mM	0.2964 mL	1.4821 mL	2.9641 mL

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

וחום	-	$c_{\Lambda I}$	ACTI	VITV
вш	10/4	L AI	AL II	VIIY

Description GPR40 agonist 6 (Compound 7a) is a potent and selective free fatty acid receptor 1 (FFAR1 or GPR40) agonist with an EC<sub>50</sub> of

 $0.058 \, \mu M^{[1]}$ .

IC<sub>50</sub> & Target  $EC_{50}$ : 0.058  $\mu$ M (GPR40)<sup>[1]</sup>

In Vitro GPR40 agonist 6 (Compound 7a) shows a very favorable ADME profile, and shows no significant inhibition of the principal cytochrome P450 isoforms (1A2, 2C9, 2C19, 2D6 and 3A4) at 5  $\mu$ M<sup>[1]</sup>.

ADME profile for GPR40 agonist 6 (Compound 7a)<sup>[1]</sup>

GPR40 agonist 6 (Compound 7a)

Plasma protein binding (human)<sup>a</sup> 98.6%

Aqueous solubility (PBS, pH 7.4) <sup>b</sup>	404 μΜ
Microsomal stability (mouse, t1/2) <sup>c</sup>	434 min
A-B permeability (Caco-2, cm•s <sup>-1</sup> ) <sup>d</sup>	15.2 • 10 <sup>-6</sup>

<sup>&</sup>lt;sup>a</sup>Each value is an average of n = 4, measured at  $c = 1 \mu M$ .

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

## **REFERENCES**

[1]. Zahanich I, et al. Phenoxymethyl 1,3-oxazoles and 1,2,4-oxadiazoles as potent and selective agonists of free fatty acid receptor 1 (GPR40). Bioorg Med Chem Lett. 2015 Aug 15;25(16):3105-11.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

<sup>&</sup>lt;sup>b</sup>Each value is an average of n = 2.

<sup>&</sup>lt;sup>c</sup>Each value is an average of n = 5, measured at  $c = 2 \mu M$ .

 $<sup>^</sup>dEach$  value is an average of n = 2, measured at c = 10  $\mu M.$