# Data Sheet (Cat.No.T4628)



# Seladelpar

### **Chemical Properties**

CAS No.: 851528-79-5

Formula: C21H23F3O5S

Molecular Weight: 444.46

Appearance: no data available

store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}$$

## **Biological Description**

Description	Seladelpar (MBX 8025) has been used in trials studying the treatment of Hyperlipidemia			
Targets(IC50)	PPAR			
In vitro	Seladelpar (MBX-8025) is an orally administered, highly potent (2 nM), and selective PPAR- $\delta$ agonist with over 750-fold and 2500-fold specificity over PPAR- $\alpha$ and PPAR- $\gamma$ receptors, respectively. As a lipid-modifying agent, it effectively improves insulin resistance, diabetes, and atherogenic dyslipidemia by targeting human PPAR- $\delta$ at a 50% effective concentration of 2 nM, compared to 1,600 nM for PPAR- $\alpha$ .			
In vivo				
Animal Research	similarly observed in wild-type mice on an atherogenic diet (P<0.05).  From weaning (week 4), Alms1 mutant (foz/foz) NOD.B10 mice or Wt littermates (fema mice in both groups) are fed an atherogenic diet (23% fat, 0.2% cholesterol and 45% simple carbohydrate; 4.78 kcal/g digestible energy) ad libitum for 16 weeks, after which			

groups are randomized (n=8-12 mice/group) to once-a-day oral administration (by gavage) for 8 weeks of Seladelpar (10 mg/kg in 1% methylcellulose) or vehicle (controls). Animals are housed under 12-hour light/dark cycle and constant temperature of 22°C and receive maximal humane care[2].

#### **Solubility Information**

Solubility	DMSO: 10 mg/mL (22.5 mM),Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2499 mL	11.2496 mL	22.4992 mL
5 mM	0.450 mL	2.2499 mL	4.4998 mL
10 mM	0.225 mL	1.125 mL	2.2499 mL
50 mM	0.045 mL	0.225 mL	0.450 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

#### Reference

Bays HE, et al. MBX-8025, a novel peroxisome proliferator receptor-delta agonist: lipid and other metabolic effects in dyslipidemic overweight patients treated with and without atorvastatin. J Clin Endocrinol Metab. 2011 Sep;96(9): 2889-97

Haczeyni F, et al. The selective peroxisome proliferator-activated receptor-delta agonist seladelpar reverses nonalcoholic steatohepatitis pathology by abrogating lipotoxicity in diabetic obese mice. Hepatol Commun. 2017 Jul 31;1(7):663-674.

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