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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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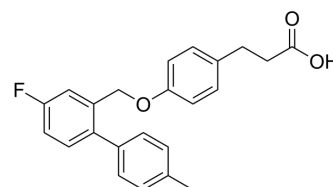
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TUG-891

Cat. No.:	HY-100881		
CAS No.:	1374516-07-0		
Molecular Formula:	C ₂₃ H ₂₁ FO ₃		
Molecular Weight:	364.41		
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 : 100 mg/mL (274.42 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.7442 mL	13.7208 mL	27.4416 mL
		5 mM		0.5488 mL	2.7442 mL	5.4883 mL
		10 mM		0.2744 mL	1.3721 mL	2.7442 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 (6.86 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	TUG-891 is a potent and selective agonist for the long chain free fatty acid (LCFA) receptor 4 (FFA4/GPR120) ^[1] .
In Vitro	TUG-891 displays similar signaling properties to the LCFA α-linolenic acid at human FFA4, including stimulation of Ca²⁺ mobilization, β-arrestin-1 and β-arrestin-2 recruitment, and extracellular signal-regulated kinase phosphorylation. Activation of human FFA4 by TUG-891 also results in rapid phosphorylation and internalization of the receptor^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Biol Macromol. 2023 Aug 30;126553.
- Front Immunol. 2021 Jun 10;12:703914.
- Neural Regen Res. 2023 Oct;18(10):2278-2284.
- Biomed Chromatogr. 2020 Sep;34(9):e4870.
- Research Square Print. 2022 May.

See more customer validations on www.MedChemExpress.com

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

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