

TC-O 9311

## Chemical Properties

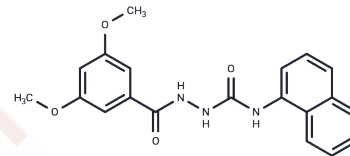
CAS No. : 444932-31-4

Formula: C<sub>20</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>

Molecular Weight: 365.38

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TC-O 9311 (TCO-9311) is an effective agonist of GPR139 (EC <sub>50</sub> = 39 nM in CHO-K1 cells expressing human GPR139).
Targets(IC <sub>50</sub> )	GPCR

## Solubility Information

Solubility	DMSO: 125 mg/mL (342.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.95 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7369 mL	13.6844 mL	27.3688 mL
5 mM	0.5474 mL	2.7369 mL	5.4738 mL
10 mM	0.2737 mL	1.3684 mL	2.7369 mL
50 mM	0.0547 mL	0.2737 mL	0.5474 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shi F, Shen JK, Chen D, Fog K, Thirstrup K, Hentzer M, Karlsson JJ, Menon V, Jones KA, Smith KE, Smith G. Discovery and SAR of a Series of Agonists at Orphan G Protein-Coupled Receptor 139. ACS Med Chem Lett. 2011 Feb 28;2(4): 303-6. doi: 10.1021/ml100293q. eCollection 2011 Apr 14. PubMed PMID: 24900311; PubMed Central PMCID: PMC4028000.

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