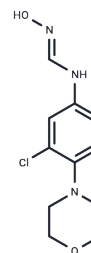


TS-011

## Chemical Properties

CAS No. : 339071-18-0  
 Formula: C<sub>11</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 255.7  
 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	N-(3-Chloro-4-morpholinophenyl)-N'-hydroxyformimidamide (TS-011) is a selective 20-Hydroxyeicosatetraenoic acid synthesis inhibitor.
Targets(IC50)	Others, Orphan Receptor
In vivo	Administered at a dose of 0.3 mg/kg, TS-011 effectively inhibits the decrease in blood flow velocities observed at 1 and 7 hours post-reperfusion, as evidenced by significant statistical values (P<0.001), and prevents the acceleration of blood flow velocity at 24 hours after reperfusion (P<0.01). Additionally, this dosage of TS-011 substantially reduces the volume of infarcts by nearly 40% (P<0.05) and maintains microvascular perfusion areas, which are otherwise diminished in mice treated with a standard vehicle [1]. Furthermore, in a study involving 9 dogs experiencing delayed vasospasm, an acute intervention with TS-011 (1 mg/kg IV) markedly enlarged the basilar artery's diameter by 39%, illustrating a significant impact on vascular health [2].

## Solubility Information

Solubility	DMSO: 240 mg/mL (938.6 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: 3.3 mg/mL (12.91 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

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	1mg	5mg	10mg
1 mM	3.9108 mL	19.5542 mL	39.1083 mL
5 mM	0.7822 mL	3.9108 mL	7.8217 mL
10 mM	0.3911 mL	1.9554 mL	3.9108 mL
50 mM	0.0782 mL	0.3911 mL	0.7822 mL

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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

Marumo T, et al. The inhibitor of 20-HETE synthesis, TS-011, improves cerebral microcirculatory autoregulation impaired by middle cerebral artery occlusion in mice. *Br J Pharmacol.* 2010 Nov;161(6):1391-402.

Hacein-Bey L, et al. Reversal of delayed vasospasm by TS-011 in the dual hemorrhage dog model of subarachnoid hemorrhage. *AJNR Am J Neuroradiol.* 2006 Jun-Jul;27(6):1350-4.

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