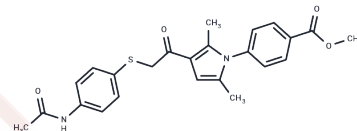


VU0155094

## Chemical Properties

CAS No. : 731006-86-3  
 Formula: C<sub>24</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>S  
 Molecular Weight: 436.52  
 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	VU0155094 (ML 397) is a positive allosteric modulator with differential activity at the various group III mGluRs.
Targets(IC50)	GluR

## Solubility Information

Solubility	DMSO: 50 mg/mL (114.54 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: 2 mg/mL (4.58 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	2.2908 mL	11.4542 mL	22.9085 mL
5 mM	0.4582 mL	2.2908 mL	4.5817 mL
10 mM	0.2291 mL	1.1454 mL	2.2908 mL
50 mM	0.0458 mL	0.2291 mL	0.4582 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

Jalan-Sakrikar N, Field JR, Klar R, Mattmann ME, Gregory KJ, Zamorano R, Engers DW, Bollinger SR, Weaver CD, Days EL, Lewis LM, Utley TJ, Hurtado M, Rigault D, Acher F, Walker AG, Melancon BJ, Wood MR, Lindsley CW, Conn PJ, Xiang Z, Hopkins CR, Niswender CM. Identification of positive allosteric modulators VU0155094 (ML397) and VU0422288 (ML396) reveals new insights into the biology of metabotropic glutamate receptor 7. *ACS Chem Neurosci*. 2014 Dec 17;5(12):1221-37. doi: 10.1021/cn500153z. Epub 2014 Oct 9. PubMed PMID: 25225882; PubMed Central PMCID: PMC4306484.

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