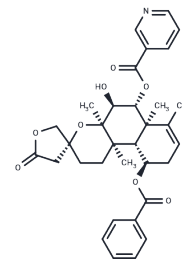


## Scutebarbatine W

## Chemical Properties

CAS No. :	1312716-25-8
Formula:	C <sub>33</sub> H <sub>37</sub> N <sub>0</sub> O <sub>8</sub>
Molecular Weight:	575.65
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	Scutebarbatine W can inhibit nitric oxide production efficiently with IC <sub>50</sub> values of lower than 50 μM, it may have potential effects on the reduction of neuroinflammation.
Targets(IC <sub>50</sub> )	Others
In vitro	The arial parts of <i>Scutellaria barbata</i> D. Don (Lamiaceae) efficiently inhibited NO production in BV2 microglial cells, and the active constituents were further isolated based on activity-guided isolation using silica-gel column chromatography, RP-C18 MPLC and prep-HPLC. As the results, 2 flavonoids including 6-methoxynaringenin (1) and 6-O-methylscutellarein (5), and 6 neo-clerodane diterpenes such as Scutebarbatine W (2), scutebatas B (3), scutebarbatine B (4), scutebarbatine A (6), 6-O-nicotinylscutebarbatine G (7) and Scutebarbatine X (8) were isolated. The structures of these compounds were elucidated based on NMR and MS data, and the comparison of literature values.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7372 mL	8.6858 mL	17.3717 mL
5 mM	0.3474 mL	1.7372 mL	3.4743 mL
10 mM	0.1737 mL	0.8686 mL	1.7372 mL
50 mM	0.0347 mL	0.1737 mL	0.3474 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

Constituents from *Scutellaria barbata* Inhibiting Nitric Oxide Production in LPS-stimulated Microglial Cells. *Chem. Biodivers.*, 2017 Aug 14.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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