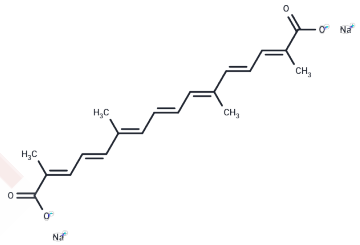
# Data Sheet (Cat.No.TQ0027)

TargetMol

## Transcrocetinate disodium

### Chemical Properties



CAS No. : 591230-99-8

Formula: C20H22Na2O4

Molecular Weight: 372.37

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
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 | Transcrocetinate disodium (Disodium trans-crocetinate), extracted from saffron (Crocus sativus L.), is a high-affinity antagonist of NMDA receptor. |
| Targets(IC50) | NMDAR,iGluR |
| In vitro | Transcrocetinate has been shown to exert strong NMDA receptor affinity and is thought to be responsible for the CNS activity of saffron. Transcrocetinate at 10 μM level does not change viability while higher concentrations (40-160 μM) reduces significantly cellular viability. |

### Solubility Information

| | |
|---|---|
| Solubility | H2O: 4.42 mg/mL (11.87 mM),Sonication is recommended.<br>DMSO: Insoluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.6855 mL | 13.4275 mL | 26.855 mL |
| 5 mM | 0.5371 mL | 2.6855 mL | 5.371 mL |
| 10 mM | 0.2686 mL | 1.3428 mL | 2.6855 mL |
| 50 mM | 0.0537 mL | 0.2686 mL | 0.5371 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

Lautenschläger M, et al. Intestinal formation of trans-Crocetin from saffron extract (Crocus sativus L.) and in vitro permeation through intestinal and blood brain barrier. Phytomedicine. 2015 Jan 15;22(1):36-44.



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