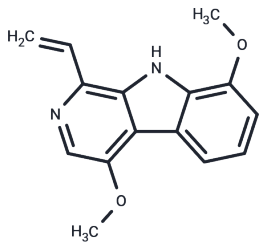
# Data Sheet (Cat.No.T19934)

TargetMol

## Dehydrocrenatidine

### Chemical Properties



CAS No. : 65236-62-6

Formula: C15H14N2O2

Molecular Weight: 254.28

Storage: Store at low temperature,Keep away from direct sunlight
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 | Dehydrocrenatidine (Kumujian G) is an inhibitor of JAK and induces cell apoptosis. |
| Targets(IC50) | Apoptosis,JAK |
| In vitro | In DU145 and MDA-MB-468 cells, Dehydrocrenatidine inhibits cell survival and induces cell apoptosis in a JAK-STAT3-dependent manner. Dehydrocrenatidine reduces the STAT3 phosphorylation stimulated by IL-6, IFN-α, and IFN-γ[1]. Dehydrocrenatidine reduces tetrodotoxin-resistant and sensitive voltage-gated sodium channel currents with IC50 values of 12.36 μM and 4.87 μM, respectively[2]. |
| In vivo | Dehydrocrenatidine inhibits voltage-gated sodium channels and ameliorates mechanic allodia in a rat model of neuropathic pain[2]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: Soluble,<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.9327 mL | 19.6634 mL | 39.3267 mL |
| 5 mM | 0.7865 mL | 3.9327 mL | 7.8653 mL |
| 10 mM | 0.3933 mL | 1.9663 mL | 3.9327 mL |
| 50 mM | 0.0787 mL | 0.3933 mL | 0.7865 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

Zhang J, et al. Dehydrocrenatidine is a novel janus kinase inhibitor. Mol Pharmacol. 2015 Apr;87(4):572-81.
Fang Zhao, et al. Dehydrocrenatidine Inhibits Voltage-Gated Sodium Channels and Ameliorates Mechanic Allodia in a Rat Model of Neuropathic Pain. Toxins (Basel). 2019 Apr 18;11(4):229.