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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

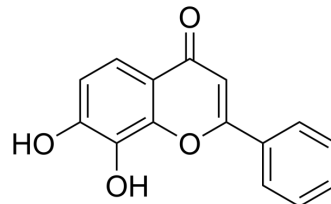
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

7,8-Dihydroxyflavone

Cat. No.:	HY-W013372
CAS No.:	38183-03-8
Molecular Formula:	C ₁₅ H ₁₀ O ₄
Molecular Weight:	254.24
Target:	Trk Receptor; Apoptosis
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 1 year; -20°C, 6 months (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (393.33 mM) * "≥" means soluble, but saturation unknown.																									
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.9333 mL</td> <td>19.6665 mL</td> <td>39.3329 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7867 mL</td> <td>3.9333 mL</td> <td>7.8666 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3933 mL</td> <td>1.9666 mL</td> <td>3.9333 mL</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.9333 mL	19.6665 mL	39.3329 mL	5 mM	0.7867 mL	3.9333 mL	7.8666 mL	10 mM	0.3933 mL	1.9666 mL	3.9333 mL				
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Please refer to the solubility information to select the appropriate solvent.																										
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.83 mM); Clear solution 																									

BIOLOGICAL ACTIVITY

Description	7,8-Dihydroxyflavone is a potent and selective TrkB agonist that mimics the physiological actions of Brain-derived neurotrophic factor (BDNF). Displays therapeutic efficacy toward various neurological diseases ^[1] .
IC₅₀ & Target	TrkB
In Vitro	7,8-Dihydroxyflavone (500 nM) protects the primary cortical neurons and locus coeruleus (LC) neurons from Aβ-induced toxicity and promotes dendritic growth and synaptogenesis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

7,8-Dihydroxyflavone (5 mg/kg/day) prevents synaptic loss and memory deficits in a mouse model of Alzheimer's Disease^[1].?

Administration of 7,8- dihydroxyflavone to mice activates TrkB in the brain, inhibits kainic acid-induced toxicity, decreases infarct volumes in stroke in a TrkBdependent manner, and is neuroprotective in an animal model of Parkinson disease^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Hazard Mater. 2023 Sep 5, 457, 131831.
- Mol Psychiatry. 2021 Oct 12.
- Ecotoxicol Environ Saf. 2022 Nov 21;248:114307.
- J Agric Food Chem. 2021 Nov 4.
- Eur J Pharmacol. 2022 Nov 22;175420.

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REFERENCES

[1]. Zhang Z, et al. 7,8-dihydroxyflavone prevents synaptic loss and memory deficits in a mouse model of Alzheimer's disease. Neuropsychopharmacology. 2014 Feb;39(3):638-50.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA