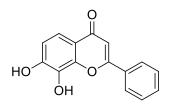


Catalog # 10-1174 7,8-Dihydroxyflavone

CAS# 38183-03-8 7,8-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one 7,8-DHF Lot # X103045



A selective TrkB agonist (K_d=320 nM) with potent neurotrophic activity.^{1,2} Significantly improves motor deficits, ameliorates brain atrophy and extends survival in the well-characterized N171-82Q Huntington's disease mouse model.³ Post-traumatic brain injury-treatment promotes neurogenesis in the hippocampus in a mouse model.⁴ Improves motor performance and motor neuronal survival in an ALS mouse model.⁵

- 1) Jang et al. (2010), A selective TrkB agonist with potent neurotrophic activities by 7,8-dihydroxyflavone; Proc. Natl. Acad. Sci. USA, **107** 2687
- 2) Liu et al. (2014) Biochemical and biophysical investigation of the brain-derived neurotrophic factor mimetic 7,8dihydroxyflavone in the binding and activation of the TrkB receptor; J. Biol. Chem., **289** 27571
- 3) Jiang et al. (2013) Small-molecule TrkB receptor agonist improve motor function and extend survival in a mouse model of Huntington's disease; Hum. Mol. Genet., **22** 2462
- 4) Zhao et al. (2016) Post-injury Treatment of 7,8-Dihydroxyflavone Promotes Neurogenesis in the Hippocampus of the Adult Mouse; J. Neurotrauma, **33** 2055
- 5) Korkmaz et al. (2014) 7,8-dihydroxyflavone improves motor performance and enhances lower motor neuronal survival in a mouse model of amyotrophic lateral sclerosis; Neurosci. Lett., **566** 286

PHYSICAL DATA

Molecular Weight:	254.25
Molecular Formula:	C15H10O4
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 6 mg/ml)
Physical Description:	Yellow or tan solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in
	DMSO or ethanol may be stored at -20°C for up to 1 week.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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