



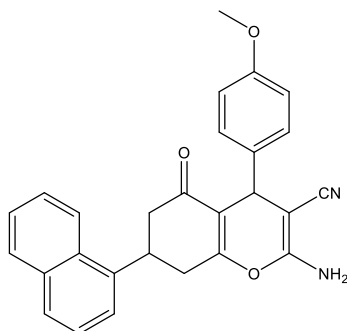
Catalog # 10-4880

UCPH-101

CAS# 1118460-77-7

2-Amino-4-(4-methoxyphenyl)-7-naphthalen-1-yl-5-oxo-4,6,7,8-tetrahydrochromene-3-carbonitrile

Lot # FBS2063



UCPH-101 is a potent (IC_{50} = 660 nM) and selective inhibitor of the excitatory amino acid transporter 1 (EAAT1).^{1,2} It induced cell death in glioblastoma cells *via* intracellular glutamate accumulation. UCPH-101 also significantly increased survival in glioma-bearing mice.³

- 1) Jensen *et al.* (2009), *Discovery of the First Selective Inhibitor of Excitatory Amino Acid Transporter Subtype 1*; J. Med. Chem., **52** 912
- 2) Erichsen *et al.* (2010), *Structure-Activity Relationship Study of the First Selective Inhibitor of Excitatory Amino Acid Transporter Subtype 1: 2-Amino-4-(4-methoxyphenyl)-7-(naphthalen-1-yl)-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carbonitrile (UCPH-101)*; J. Med. Chem., **53** 7180
- 3) Corbetta *et al.* (2019), *Altered function of the glutamate-aspartate transporter GLAST, a potential therapeutic target in glioblastoma*; Int. J. Cancer, **144** 2539

PHYSICAL DATA

Molecular Weight: 422.48
Molecular Formula: C₂₇H₂₂N₂O₃
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (10 mg/ml)
Physical Description: Off-white solid
Storage and Stability: Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com