Product Data Sheet

Product Name: UPF-648 sodium salt
Cat. No.: GC31067

Chemical Properties

Cas. No.	1465017-87-1		
SMILES	ClC1=C(Cl)C=CC(C([C@@]2([H])C[C@]2([H])C([O-])=O)=O)=C1.[Na+]		
Formula	$C_{11}H_7Cl_2NaO_3$	M.Wt	281.07
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	UPF-648 sodium salt		

Background

UPF-648 is an inhibitor of kynurenine 3-monooxygenase (IC_{50} = 40 nM).[1] It increases kynurenine and kynurenic acid and decreases 3-hydroxykynurenine brain levels in newborn rats for up to 12 hours when administered at a dose of 30 mg/kg.[2] UPF-648 (30 ?M) is protective against rhabdomere neurodegeneration in the eye in a *Drosophila* model of Huntington's disease.[3] It also decreases hypersensitivity to mechanical and thermal stimuli in a rat model of neuropathic pain induced by chronic constriction injury to the sciatic nerve.[4]

1.Pellicciari, R., Amori, L., Costantino, G., et al.Modulation of the kynurine pathway of tryptophan metabolism in search for neuroprotective agents. Focus on kynurenine-3-hydroxylaseAdv. Exp. Med. Biol.527621-628(2003) 2.Ceresoli-Borroni, G., Guidetti, P., Amori, L., et al.Perinatal kynurenine 3-hydroxylase inhibition in rodents: Pathophysiological implicationsJ. Neurosci. Res.85(4)845-854(2007) 3.Campesan, S., Green, E.W., Breda, C., et al.The kynurenine pathway modulates neurodegeneration in a Drosophila model of Huntington's diseaseCurr. Biol.21(11)9611-9966(2011) 4.Rojewska, E., Ciapa?a, K., Piotrowska, A., et al.Pharmacological inhibition of indoleamine 2,3-

dioxygenase-2 and kynurenine 3-monooxygenase, enzymes of the kynurenine pathway, significantly diminishes neuropathic pain in a rat modelFront. Pharmacol.9724(2018)

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA