Product Data Sheet

Product Name: MRS 5698
Cat. No.: GC50162

Chemical Properties

Cas. No.	1377273-00-1		
SMILES	O=[C@](NC)[C@@]1(C2)[C@H]2[C@@H](N3C(N=C(C#CC6=CC(F)=C(F)C=C6)N=C4NCC5=CC(Cl)=CC=C5)=C4N=C3)[C@H](O)[C@@H]1O		
Formula	$C_{28}H_{23}ClF_2N_6O_3$	M.Wt	564.97
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	MRS 5698		

Background

High affinity and selective A3 adenosine receptor agonist (Ki ~ 3 nM); displays >1000-fold selectivity over A1 and A2A adenosine receptors. Reverses mechanoallodynia in several neuropathic pain models in vivo. Orally bioavailable.

Little et al (2015) Endogenous adenosine A3 receptor activation selectively alleviates persistent pain states. Brain 138 28 PMID:25414036 |Tosh et al (2012) Structure-guided design of A3 adenosine receptor-selective nucleosides: combination of 2-arylethynyl and bicyclo[3.1.0]hexane substitutions. J.Med.Chem. 55 4847 PMID:22559880 |Tosh et al (2015) Efficient, large-scale synthesis and preclinical studies of MRS5698, a highly selective A3 adenosine receptor agonist that protects against chronic neuropathic pain. Purinergic Signal. 11 371 PMID:26111639

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