Product Data Sheet

Product Name: UK-240455
Cat. No.: GC31153

Chemical Properties

Cas. No.	178908-09-3		
SMILES	CS(=O)(N(C1=C(Cl)C(Cl)=CC(NC2=O)=C1NC2=O)CCO)=O		
Formula	$C_{11}H_{11}Cl_2N_3O_5S$	M.Wt	368.19
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	UK-240455		

Protocol

Animal experiment:

UK-240455 is administered both i.v. and orally at a dose of 2 mg/kg to male rats. Before and during the i.v. and oral studies, animals have free access to food and water. For i.v. studies, UK-240455 is administered to rats (250 to 300 g) via the tail vein. At the following time points (n=3/time point) blood samples are taken under terminal anaesthesia: predose, 0.1, 0.25, 0.5, 1.0, 1.5, 2.0, 4.0 and 7.0 h postdose. Blood samples are collected into heparinized tubes and centrifuged to separate plasma. The plasma is removed and stored frozen. Three further rats are dosed with UK-240455 as above and placed in metabolism cages to collect urine. After 24 h, these animals are killed and the urine collected and stored frozen[1].

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

References:

[1]. Webster R, et al. Pharmacokinetics and disposition of a novel NMDA glycine site antagonist (UK-240,455) in rats, dogs and man. Xenobiotica. 2003 May;33(5):541-60.

Background

UK-240455 is a potent and selective N-methyl D-aspartate (NMDA) glycine site antagonist.

UK-240455 is a potent and selective N-methyl D-aspartate (NMDA) glycine site antagonist. Following i.v. administration of UK-240455 to male rats, UK-240455 has a clearance of 12 mL/min/kg and a volume of distribution of 0.4 L/kg. The plasma concentration of UK-240455 decreases with an apparent half-life of 0.4 h. Analysis of urine (0 to 24 h) for unchanged UK-240455 indicates that 57% of the dose administered is excreted unchanged in the urine. The urinary clearance of UK-240455 in the rat is therefore 7 mL/min/kg. Following oral administration of UK-240455 to male rats, the apparent elimination half-life of UK-240455 from plasma following oral administration is 1.6 h[1].

[1]. Webster R, et al. Pharmacokinetics and disposition of a novel NMDA glycine site antagonist (UK-240,455) in rats, dogs and man. Xenobiotica. 2003 May;33(5):541-60.

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