



HPGDS inhibitor 1

Catalog No: tcsc1801

Available Sizes	
Size: 5mg	
Size: 10mg	
Size: 50mg	
Size: 100mg	
Specifications	
CAS No: 1033836-12-2	
Formula: C ₁₉ H ₁₉ F ₄ N ₃ O	
Pathway: Immunology/Inflammation	
Target: PGE synthase	
Purity / Grade: >98%	
Solubility: 10 mM in DMSO	
Observed Molecular Weight: 381.37	

Product Description

HPGDS inhibitor 1 is a novel and selective Hematopoietic Prostaglandin D Synthase (HPGDS) inhibitor with an IC50 Value of 0.7 nM.





IC50 Value: 0.7 nM [1]

Target: HPGDS

HPGDS inhibitor 1 was elected for further profiling based on its enzyme and cell potency. The compound illustrated equal potency against purified HPGDS from human , rat, dog, and sheep (IC50, 0.5-2.3 nM). HPGDS inhibitor 1 was profiled in a panel of cellular assays to screen for activity against several relevant human enzyme targets. Those assay indicated that HPGDS inhibitor 1 does not inhibit human L- PGDS, m-PGDS, COX-1, COX-2 or 5 LOX (IC50 values > 10000 nM).

HPGDS inhibitor 1 had a solubility of 1.5 ug/ml (3.9 uM) at pH 6.5. The compound had excellent PK characteristics when dosed in rats at 1 mpk with 76% bioavailavility.

Rats dosed orally with 1 and 10 mpk HPGDS inhibitor 1 were sacrificed at various times, and plasma concentrations of HPGDS inhibitor 1 and spleen PGD2 concentrations were measured. Oral administration of HPGDS inhibitor 1 blocked PGD2 production in the rat spleen; inhibition of PGD2 was inversely correlated with the plasma concentration of HPGDS inhibitor 1 in a time and dosedependent manner. Spleen PGD2 levels fall as HPGDS inhibitor 1 plasma levels increase over time; PGD2 levels return to baseline levels as HPGDS inhibitor 1 plasma levels decline.

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