Product Data Sheet

Product Name: ML-354
Cat. No.: GC15710

Chemical Properties

Cas. No.	89159-60-4		
Chemical Name	1-methyl-5-nitro-3-phenyl-1H-indole-2-methanol		
SMILES	CN1C(CO)=C(C2=CC=CC=C2)C3=C1C=CC([N+]([O-])=O)=C3		
Formula	$C_{16}H_{14}N_2O_3$	M.Wt	282.3
Solubility	≤2mg/ml in ethanol;20mg/ml in DMSO;20mg/ml in dimethyl formamide	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	ML-354		

Background

IC50: 140 nM

ML-354 is an indole-based, proteinase-activated receptor (PAR) 4 antagonist with good potency and reasonable selectivity versus PAR1. PARs are a family of four G-protein-coupled receptors GPCRs (PAR1-PAR4) with several unique attributes, which are activated by serine proteases. The activation of PARs needs a unique mechanism which requiring proteolysis unmasking their extracellular N-terminal domain. PAR4 is a thrombin receptor found on human platelets and represents a potential therapeutic target for the treatment of thrombotic disorders [1].

In vitro: Up to now, in vitro study of ML-354 is still in the development stage.

In vivo: Up to now, in vivo study of ML-354 is still in the development stage.

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Reference:
[1]. Wen, W., Young, S., Duvernay, M., Schulte, M., Nance, K., & Melancon, B. et al. Substituted indoles as selective protease activated receptor 4 (PAR-4) antagonists: Discovery and SAR of ML354. Bioorganic & Medicinal Chemistry Letters. 2014; 24(19): 4708-4713.

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