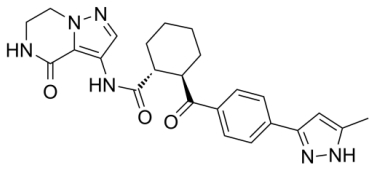
Data Sheet

Product Name:	Atuliflapon
Cat. No.:	CS-0090377
CAS No.:	2041075-86-7
Molecular Formula:	$C_{24}H_{26}N_6O_3$
Molecular Weight:	446.50
Target:	FLAP
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 125 mg/mL (279.96 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Atuliflapon (AZD5718) is an orally active inhibitor of **FLAP (5-Lipoxygenase activating protein)**, with an **IC_{50}** of 2 nM. Atuliflapon is used in the study for coronary artery disease[1]. IC50 & Target:IC50: 2 nM (FLAP)[1].

In Vitro: Atuliflapon demonstrates a dose dependent and greater than 90% suppression of leukotriene production over 24 h[1].

Atuliflapon exhibits an IC_{50} of 39 nM for LTB_4[1]. ***In Vivo:*** Atuliflapon exhibits t1/2 of 0.45 h and 2.1 h in rat and dog by iv injection, respectively[1].

Atuliflapon shows no inhibition of 5-LO pathway activity in rodent blood[1].

References:

[1]. Daniel Pettersen, et al. Discovery and Early Clinical Development of an Inhibitor of 5-Lipoxygenase Activating Protein (AZD5718) for Treatment of Coronary Artery Disease. J Med Chem. 2019 May 9;62(9):4312-4324.

CAIndexNames:

Cyclohexanecarboxamide, 2-[4-(5-methyl-1H-pyrazol-3-yl)benzoyl]-N-(4,5,6,7-tetrahydro-4-oxopyrazolo[1,5-a]pyrazin-3-yl)-, (1R,2R)-

SMILES:

O=C([C@H]1[C@H](C(C2=CC=C(C3=NNC(C)=C3)C=C2)=O)CCCC1)NC4=C(N(N=C4)CCN5)C5=O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA