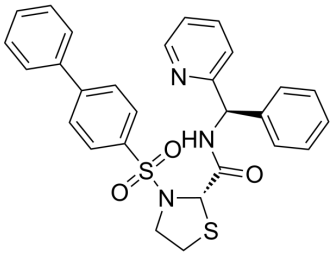
AS604872

Cat. No.:	HY-118388
CAS No.:	612532-48-6
Molecular Formula:	$C_{28}H_{25}N_3O_3S_2$
Molecular Weight:	515.65
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AS604872 is an orally active, potent and selective prostaglandin F2α receptor (FP) antagonist with a K_i of 35 nM in humans, 158 nM in rats and 323 nM in mice. AS604872 inhibits contractions and delays labour[1].
In Vivo	AS604872 (10-100 mg/kg, p.o.) delays RU486-induced preterm labour. It also dose-dependently inhibits GD14-triggered labour, with a significant increase in mean time to delivery of 16.5 and 33.5 hours at 30 mg/kg and 100 mg/kg, respectively. However, the delayed effect on GD17-induced labour is less pronounced in mice[1]. AS604872 (3-120 mg/kg, i.v.) inhibits PGF 2α-triggered total synthesis of phosphatidylinositol in a dose-dependent manner and significantly reduces PGF 2α-induced uterine contractions in SD BR non-pregnant female rats, with a maximum effect of 27% at 60 mg/kg. It also inhibited spontaneous uterine contractions in pregnant rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rocco Cirillo, et al. Arrest of preterm labor in rat and mouse by an oral and selective nonprostanoid antagonist of the prostaglandin F2alpha receptor (FP). Am J Obstet Gynecol. 2007 Jul;197(1):54.e1-9.

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