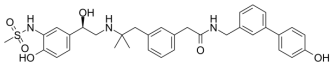
PF-610355

Cat. No.:	HY-14296
CAS No.:	862541-45-5
Molecular Formula:	$C_{34}H_{39}N_3O_6S$
Molecular Weight:	617.75
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PF-610355 is a long-acting inhaled β_2-adrenoreceptor agonist, with an EC_{50} of 0.26 nM. PF-610355 has the potential for the study of asthma and COPD[1].
In Vivo	PF-610355 is a long-acting (once daily) inhaled β_2-adrenoreceptor agonist. PF-610355 has low oral bioavailability due to poor absorption through the gut lumen and high first pass metabolism and warranted further progression. PF-610355 has a short half-life (Cl_{int} = 33 (μL/min)/mg) that suggested an unbound intrinsic clearance of >10000 (mL/min)/kg. PF-610355 exhibits an ideal pharmacokinetic profile for an inhaled agent[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Glossop PA, et al. Inhalation by design: novel ultra-long-acting β(2)-adrenoreceptor agonists for inhaled once-daily treatment of asthma and chronic obstructive pulmonary disease that utilize a sulfonamide agonist headgroup. J Med Chem. 2010 Sep 23;53(18):6640-52.

[2]. Fuso L, et al. Long-acting beta-agonists and their association with inhaled corticosteroids in COPD. Curr Med Chem. 2013;20(12):1477-95.

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