(S)-BI 665915

Cat. No.: HY-12995A CAS No.: 1360550-05-5

Molecular Formula: $C_{24}H_{26}N_8O_2$ Molecular Weight: 458.52

Target: FLAP

Pathway: Immunology/Inflammation

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.

Product Data Sheet

BIOLOGICAL ACTIVITY

Description (S)-BI 665915 is an orally active oxadiazole-containing 5-lipoxygenase-activating protein (FLAP) inhibitor with an IC₅₀ of 1.7 nM for FLAP binding. (S)-BI 665915 inhibits FLAP functional in human whole blood with an IC₅₀ of 45 nM. (S)-BI 665915

demonstrates an excellent cross-species agent metabolism and pharmacokinetics (DMPK) profile and a dose-dependent

inhibition of LTB₄ production^[1].

IC₅₀ & Target IC50: 1.7 nM (FLAP) and 45 nM (FLAP functional in human whole blood)^[1]

In Vitro (S)-BI 665915 shows significantly weaker activity in mouse whole blood (mWB) assay than in human whole blood (mWB IC $_{50}$ =4800 nM; hWB IC₅₀=45 nM)^[1].

> (S)-BI 665915 shows a modest human hepatocyte clearance (41% percent of hepatic blood flow) and relatively high plasma protein binding (unbound fraction of 4.7%)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo (S)-BI 665915 (oral; 1-100 mg/kg) demonstrates dose-dependent LTB4 production inhibition in mouse whole blood, 2 h after single oral dose^[1].

> (S)-BI 665915 (iv of 1 mg/kg or po of 10 mg/kg) shows low iv plasma clearance in all three species, with clearance values of 7 % Qh in rat, 2.8 % Qh in dog, and 3.6 % Qh in cynomolgus monkey, respectively. The volume of distribution (Vss) across species tested is in a range of 0.5 to 1.2 L/kg, and the bioavailability was good (45 to 63 %) in all species tested^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice ^[1]	
Dosage:	1, 3, 10, 30, 100 mg/kg (Pharmacokinetic Analysis)	
Administration:	Oral	
Result:	Demonstrated dose-dependent LTB4 production inhibition in mouse whole blood, 2 h after single oral dose.	
Animal Model:	Rat; \log ; cynomolgus monkey $^{[1]}$	
Dosage:	1 mg/kg (iv) or 10 mg/kg (po)	

Administration:	lv or po
Result:	Showed low iv plasma clearance in all three species, with clearance values of 7 % Qh in rat, 2.8 % Qh in dog, and 3.6 % Qh in cynomolgus monkey, respectively.

REFERENCES

[1]. Takahashi H, et al. Synthesis, SAR, and series evolution of novel oxadiazole-containing 5-lipoxygenase activating protein inhibitors: discovery of 2-[4-(3-{(r)-1-[4-(2-amino-pyrimidin-5-yl)-phenyl]-1-cyclopropyl-ethyl}-[1,2,4]oxadiazol-5-yl)-pyrazol-1-yl]-N,N-dimethyl-acetamide (BI 665915). J Med Chem. 2015 Feb 26;58(4):1669-90.

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

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