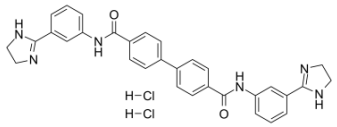
BPH-1358

Cat. No.:	HY-118946
CAS No.:	5352-53-4
Molecular Formula:	$C_{32}H_{30}Cl_2N_6O_2$
Molecular Weight:	601.53
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	BPH-1358 (NSC50460) is a potent human **farnesyl diphosphate synthase (FPPS)** and **undecaprenyl diphosphate synthase (UPPS)** inhibitor with **IC_{50}**s of 1.8 μM and 110 nM, respectively, and is active against **S. aureus** in vitro (MIC ~250 ng/mL)[1][2].
IC_{50} & Target	IC50: 1.8 μM (human bisphosphonate farnesyl diphosphate synthase)[1]; 100 nM (undecaprenyl diphosphate synthase)[2]
In Vitro	BPH-1358 is the most potent inhibitor of both E. coli UPPS (EcUPPS) as well as S. aureus UPPS (SaUPPS) with an **IC_{50}** of 110 nM. BPH-1358 against E. coli and S. aureus with **EC_{50}** of 300 nM and 290 nM, respectively[1].
In Vivo	BPH-1358 is active against S. aureus in vivo (20/20 mice survived in an i.p. infection model with a MRSA strain)[1].

REFERENCES

[1]. Liu YL, et al. Farnesyl diphosphate synthase inhibitors with unique ligand-binding geometries. ACS Med Chem Lett. 2015 Jan 29;6(3):349-54.

[2]. Zhu W, et al. Antibacterial drug leads: DNA and enzyme multitargeting. J Med Chem. 2015 Feb 12;58(3):1215-27.

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