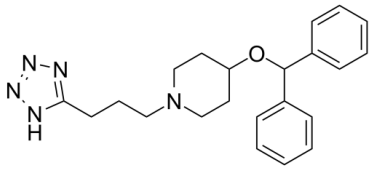
Data Sheet

Product Name:	HQL-79
Cat. No.:	CS-0027831
CAS No.:	162641-16-9
Molecular Formula:	$C_{22}H_{27}N_5O$
Molecular Weight:	377.48
Target:	PGE synthase
Pathway:	Immunology/Inflammation
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

HQL-79, a potent, selective and orally active human **hematopoietic prostaglandin D synthase (H-PGDS)** inhibitor, highly selectively inhibits the synthesis of PGD_2, and acts as an anti-allergic agent, with a $\mathbf{K_d}$ of 0.8 μM and an $\mathbf{IC_{50}}$ of 6 μM. Shows no obvious effect on COX-1, COX-2, m-PGES, or L-PGDS[1]. IC50 & Target: IC50: 6 μM (H-PGDS)[1]
Kd: 0.8 μM (H-PGDS)[1] **In Vitro:** HQL-79 is a competitive inhibitor against substrate PGH2 and a non-competitive one against GSH [1].

References:

[1]. Aritake K, et al. Structural and functional characterization of HQL-79, an orally selective inhibitor of human hematopoietic prostaglandin D synthase. J Biol Chem. 2006 Jun 2;281(22):15277-86. Epub 2006 Mar 17.

CAIndexNames:

Piperidine, 4-(diphenylmethoxy)-1-[3-(1H-tetrazol-5-yl)propyl]-

SMILES:

N1(CCCC2=NN=NN2)CCC(OC(C3=CC=CC=C3)C4=CC=CC=C4)CC1

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