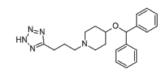


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## **Data Sheet**

Global Supplier of Chemical Probes, Inhibitors & Agonists.

| Product Name      | : | HQL-79   |
|-------------------|---|--|
| Cat. No.          | : | PC-49639   |
| CAS No.           | : | 162641-16-9                                      |
| Molecular Formula | : | C <sub>22</sub> H <sub>27</sub> N <sub>5</sub> O |
| Molecular Weight  | : | 377.48   |
| Target            | : | PGE synthase                                     |
| Solubility        | : | 10 mM in DMSO                                    |
|                   |   |  |



## **Biological Activity**

HQL-79 (HQL79) is an orally selective inhibitor of human hematopoietic prostaglandin D synthase (**H-PGDS**), inhibits human H-PGDS competitively against the substrate PGH2 and non-competitively against GSH with Ki of 5 and 3 uM, respectively.

HQL-79 binds to H-PGDS with an affinity that is 12-fold higher in the presence of GSH and Mg2+ (Kd, 0.8 uM) than in their absence.

HQL-79 selectively inhibited PGD2 production by H-PGDS-expressing human megakaryocytes and rat mastocytoma cells with an IC50 value of about 100 uM but only marginally affected the production of other prostanoids.

Orally administered HQL-79 (30 mg/kg body weight) inhibited antigen-induced production of PGD2, without affecting the production of PGE2 and PGF2alpha, and ameliorated airway inflammation in wild-type and human H-PGDS-overexpressing mice.

## References

Aritake K, et al. *J Biol Chem*. 2006 Jun 2;281(22):15277-86.

Tajima T, et al. J Pharmacol Exp Ther. 2008 Aug;326(2):493-501.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com