

Product Data Sheet

Product Name: Hydroxy Pioglitazone

Cat. No.: GC43880

Chemical Properties

Cas. No. 146062-44-4

SMILES CC(O)C1=CN=C(CCOC2=CC=C(CC3SC(NC3=O)=O)C=C2)C=C1

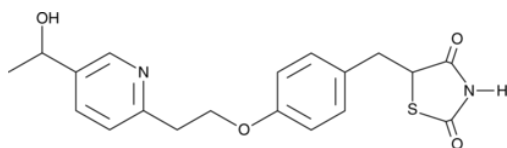
Formula C₁₉H₂₀N₂O₄S M.Wt 372.4

Solubility DMF: soluble, DMSO: soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Leriglitazone (Hydroxypioglitazone), a metabolite of pioglitazone. Leriglitazone (Hydroxypioglitazone) PioOH is a PPAR γ agonist, stabilizes the PPAR γ activation function-2 (AF-2) co-activator binding surface and enhances co-activator binding, affording slightly better transcriptional efficacy. Leriglitazone (Hydroxypioglitazone) binds to the PPAR γ C-terminal ligand-binding domain (LBD) with K_i of 1.2 μ M, induces transcriptional efficacy of the PPAR γ (LBD) with EC₅₀ of 680 nM[1].

References:

[1]. Mosure SA, et al. Structural Basis of Altered Potency and Efficacy Displayed by a Major in Vivo Metabolite of the Antidiabetic PPAR γ Drug Pioglitazone. J Med Chem. 2019 Feb 28;62(4):2008-2023.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA