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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

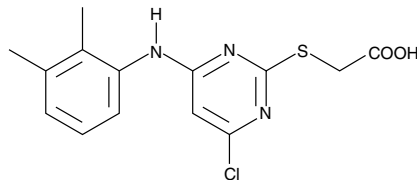
Product Information



Wy 14643

Item No. 70730

CAS Registry No.: 50892-23-4
Formal Name: [[4-chloro-6-[(2,3-dimethylphenyl)amino]-2-pyrimidinyl]thio]-acetic acid
Synonym: Pirinixic Acid
MF: C₁₄H₁₄ClN₃O₂S
FW: 323.8
Purity: ≥98%
Stability: ≥2 years at room temperature
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 244, 292 nm



Laboratory Procedures

For long term storage, we suggest that Wy 14643 be stored as supplied at room temperature. It should be stable for at least two years.

A stock solution may be made by dissolving the Wy 14643 in an organic solvent purged with an inert gas. Wy 14643 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of Wy 14643 in these solvents is approximately 16.5 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of Wy 14643 can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of Wy 14643 in PBS (pH 7.2) is approximately 40 µg/ml. We do not recommend storing the aqueous solution for more than one day.

Wy 14643 is a peroxisome proliferator - activated receptor (PPAR activator). Although this compound is primarily an activator of PPARα,¹⁻³ it has been demonstrated to activate PPARγ as well.⁴ Activation of PPARδ by Wy 14643 is also observed,⁵ but this finding is rare. The potency of Wy 14643 as an activator of PPARα is species dependent, with receptor activation occurring at concentrations as low as 0.1 µM in the mouse compared to 10 µM in *Xenopus*.⁶

References

1. Devchand, P.R., Keller, H., Peters, J.M., *et al.* The PPARγ-leukotriene B₄ pathway to inflammation control. *Nature* **384**, 39-43 (1996).
2. Hsu, M.-H., Palmer, C.N.A., Griffin, K.J., *et al.* A single amino acid change in the mouse peroxisome proliferator-activated receptor γ alters transcriptional responses to peroxisome proliferators. *Mol. Pharmacol.* **48**, 559-567 (1995).
3. Staels, B., Koenig, W., Habib, A., *et al.* Activation of human aortic smooth-muscle cells is inhibited by PPARγ but not by PPARα activators. *Nature* **393**, 790-793 (1998).
4. Lehmann, J.M., Lenhard, J.M., Oliver, B.B., *et al.* Peroxisome proliferator-activated receptors α and γ are activated by indomethacin and other non-steroidal anti-inflammatory drugs. *J. Biol. Chem.* **272**, 3406-3410 (1997).
5. Schmidt, A., Endo, N., Rutledge, S.J., *et al.* Identification of a new member of the steroid hormone receptor superfamily that is activated by a peroxisome proliferator and fatty acids. *Mol. Endocrinol.* **6**, 1634-1641 (1992).
6. Keller, H., Devchand, P.R., Perroud, M., *et al.* PPARγ structure-function relationships derived from species-specific differences in responsiveness to hypolipidemic agents. *Biol. Chem.* **378**, 651-655 (1997).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/70730

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com