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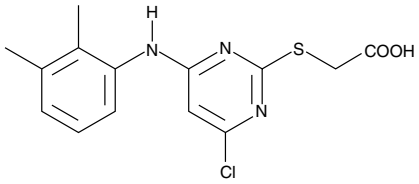
Product Information

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:	$C_{14}H_{14}ClN_3O_2S$
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

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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).5592
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).

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