



# SZABO SCANDIC

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## Produktinformation



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# Product Information



**CUR 61414**

Item No. 14931

**CAS Registry No.:** 334998-36-6  
**Formal Name:** N-[(3S,5S)-1-(1,3-benzodioxol-5-ylmethyl)-5-(1-piperazinylcarbonyl)-3-pyrrolidinyl]-N-[(3-methoxyphenyl)methyl]-3,3-dimethyl-butanamide

**Synonym:** G-856

**MF:** C<sub>31</sub>H<sub>42</sub>N<sub>4</sub>O<sub>5</sub>

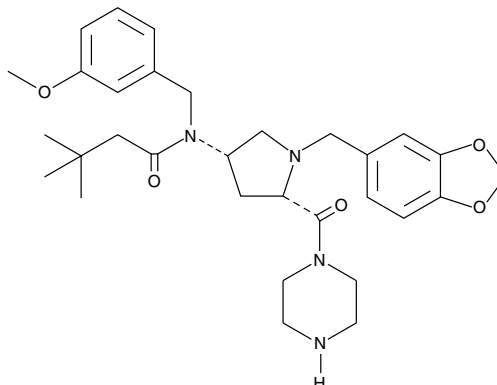
**FW:** 550.7

**Purity:** ≥98%

**Stability:** ≥2 years at -20°C

**Supplied as:** A crystalline solid

**UV/Vis.:** λ<sub>max</sub>: 281 nm



## Laboratory Procedures

For long term storage, we suggest that CUR 61414 be stored as supplied at -20°C. It should be stable for at least two years.

CUR 61414 is supplied as a crystalline solid. A stock solution may be made by dissolving the CUR 61414 in the solvent of choice. CUR 61414 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of CUR 61414 in these solvents is approximately 10 mg/ml.

CUR 61414 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CUR 61414 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. CUR 61414 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

CUR 61414 is a potent inhibitor of hedgehog-induced cellular activity (IC<sub>50</sub> = 100-200 nM).<sup>1,2</sup> It binds directly with the pathway activator Smoothened (K<sub>i</sub> = 44 nM).<sup>3</sup> CUR 61414 blocks proliferation and induces apoptosis in mouse basal cell carcinoma and causes regression of basaloid lesions triggered by ultraviolet light in mouse skin.<sup>1,4</sup>

## References

1. Williams, J.A., Guicherit, O.M., Zaharian, B.I., *et al.* Identification of a small molecule inhibitor of the hedgehog signaling pathway: Effects on basal cell carcinoma-like lesions. *Proc. Natl. Acad. Sci. USA* **100**(8), 4616-4621 (2003).
2. Manetti, F., Faure, H., Roudaut, H., *et al.* Virtual screening-based discovery and mechanistic characterization of the acylthiourea MRT-10 family as smoothened antagonists. *Mol. Pharmacol.* **78**(4), 658-665 (2010).
3. Frank-Kamenetsky, M., Zhang, X.M., Bottega, S., *et al.* Small-molecule modulators of Hedgehog signaling: Identification and characterization of smoothened agonists and antagonists. *J. Biol.* **1**(2), (2002).
4. Tang, T., Tang, J.Y., Li, D., *et al.* Targeting superficial or nodular basal cell carcinoma with topically formulated small molecule inhibitor of smoothened. *Clin. Cancer Res.* **17**(10), 3378-3387 (2011).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/14931](http://www.caymanchem.com/catalog/14931)

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

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