

## CUR61414 hydrochloride

### Chemical Properties

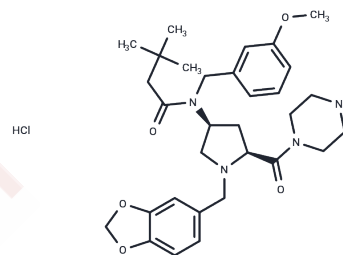
CAS No. :

Formula: C<sub>31</sub>H<sub>43</sub>ClN<sub>4</sub>O<sub>5</sub>

Molecular Weight: 587.15

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	CUR61414 hydrochloride is a potent and cell permeable inhibitor of Hedgehog signaling pathway (IC <sub>50</sub> =100-200 nM). CUR61414 hydrochloride is a small-molecule aminoproline class compound. CUR61414 hydrochloride selectively binds to smoothened (Smo, K <sub>i</sub> = 44 nM). CUR61414 hydrochloride can induce cancer cells apoptosis without affecting neighboring non-tumor cells.
Targets(IC <sub>50</sub> )	Hedgehog/Smoothened

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7031 mL	8.5157 mL	17.0314 mL
5 mM	0.3406 mL	1.7031 mL	3.4063 mL
10 mM	0.1703 mL	0.8516 mL	1.7031 mL
50 mM	0.0341 mL	0.1703 mL	0.3406 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Juliet A Williams, et al. Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions. Proc Natl Acad Sci U S A. 2003 Apr 15;100(8):4616-21.

Maria Frank-Kamenetsky. Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothened agonists and antagonists. J Biol. 2002 Nov 6;1(2):10.

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