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## Product Data Sheet

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Product Name: I-Naproxen

Cat. No.: GC65492

### Chemical Properties

Cas. No. 23979-41-1

Formula C<sub>14</sub>H<sub>14</sub>O<sub>3</sub>

M.Wt

230.26

Solubility

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

I-Naproxen ((R)-Naproxen) is an enantiomer of (S)-Naproxen. I-Naproxen can inhibit Cdc42 and Rac1 (EC<sub>50</sub>=96 μM and 212 μM, respectively), and show anti-tumor activity[1][2][3].

I-Naproxen (30-1000 μM; 2 h) inhibits Rac1 and Cdc42 activity selectively in cells[3]. I-Naproxen (0-300 μM; 48 h) inhibits migration of immortalized human ovarian cancer cells[3]. I-Naproxen (300 μM; 48 h) shows activity via a COX-independent mechanism[3].

[1]. Sonika Batra, et al. Enantiomeric Resolution of (RS)-Naproxen and Application of (S)-Naproxen in the Direct and Indirect Enantioseparation of Racemic Compounds by Liquid Chromatography: A Review. *Curr Med Chem*. 2017;24(8):758-780.

[2]. M Iwaki, et al. Stereoselective disposition of naproxen glucuronide in the rat. *Drug Metab Dispos*. 1995 Oct;23(10):1099-103.

[3]. Tudor I Oprea, et al. Novel Activities of Select NSAID R-Enantiomers against Rac1 and Cdc42 GTPases. *PLoS One*. 2015 Nov 11;10(11):e0142182.

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

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