

**Catalog # 10-3050**

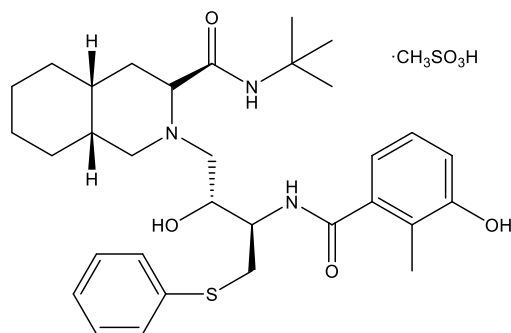
**Nelfinavir mesylate**

CAS# 159989-65-8

(3S,4aS,8aS)-N-(1,1-Dimethylethyl)decahydro-2-[(2R,3R)-2-hydroxy-3-[(3-hydroxy-2-methylbenzoyl)amino]-4-(phenylthio)butyl]-3-isoquinolinecarboxamide methanesulfonate

AG-1343

Lot # X109336



Nelfinavir is a clinically useful anti-HIV agent acting via inhibition of HIV-1 protease ( $K_i=2$  nM).<sup>1</sup> It also displays efficacy in cancer, malaria, tuberculosis and SARS.<sup>2</sup> Displays broad spectrum anticancer activity and induces endoplasmic reticulum stress, autophagy and apoptosis *in vitro* and *in vivo*.<sup>3</sup> Inhibits the growth of HER2-positive breast cancer cells via inhibition of HSP90 through a novel mechanism.<sup>4</sup>

- 1) Olmo *et al.* (2006), *A review of nelfinavir for the treatment of HIV infection*; Expert Opin. Drug Metab. Toxicol., **2** 285
- 2) Bruning *et al.* (2010), *New prospects for nelfinavir in non-HIV-related diseases*; Curr. Mol. Pharmacol., **3** 91
- 3) Gills *et al.* (2007), *Nelfinavir, A lead HIV protease inhibitor, is a broad-spectrum, anticancer agent that induces endoplasmic reticulum stress, autophagy, and apoptosis in vitro and in vivo*; Clin. Cancer Res, **13** 5183
- 4) Shim *et al.* (2012), *Selective inhibition of HER2-positive breast cancer cells by the HIV protease inhibitor nelfinavir*; J. Natl. Cancer Inst., **104** 1576

**PHYSICAL DATA**

Molecular Weight:	663.88
Molecular Formula:	C <sub>32</sub> H <sub>45</sub> N <sub>3</sub> O <sub>4</sub> S · CH <sub>3</sub> SO <sub>3</sub> H
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 70 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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