

Product Data Sheet

Product Name: FK-409
Cat. No.: GC43669

Chemical Properties

Cas. No. 138472-01-2

Chemical Name 4-ethyl-2E-(hydroxyimino)-5-nitro-3E-hexenamide

SMILES CC/C(=C\C/C(=N\O)/C(=O)N)/C(C)[N+](=O)[O-]

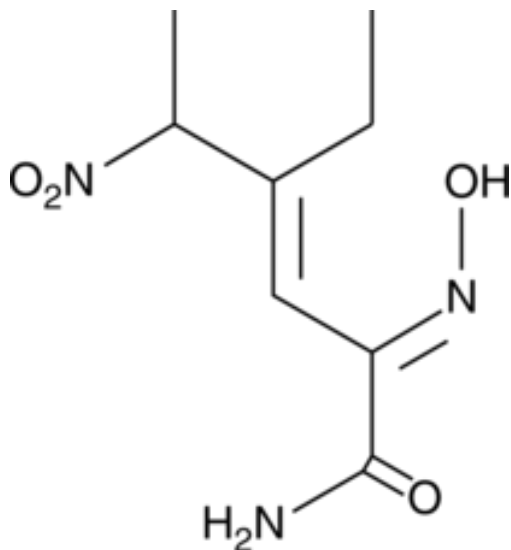
Formula C₈H₁₃N₃O₄ M.Wt 215.2

Solubility 20mg/mL in DMSO, 34mg/mL in DMF, 36mg/mL in Ethanol 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

FK-409 is a NO donor. It liberates NO in a time-dependent manner with a half-life of approximately 40 minutes in phosphate buffer (pH 7.4) at 37°C. [1] The IC₅₀ for the inhibition of platelet aggregation

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

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is 4.9 μ M. [2]

Reference:

- [1]. Kita, Y., Hirasawa, Y., Maeda, K., et al. Spontaneous nitric oxide release accounts for the potent pharmacological actions of FK409. *European Journal of Pharmacology* 257, 123-130 (1994).
- [2]. Fukuyama, S., Hirasawa, Y., Kato, Y., et al. Structure-activity relationships of spontaneous nitric oxide releasers, FK409 and its derivatives. *Journal of Pharmacology and Experimental Therapeutics* 282, 236-242 (1997).

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