

Certificate of Analysis

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Product Name: FK 409

Catalog No.: 3105

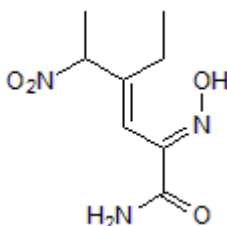
Batch No.: 1

CAS Number: 138472-01-2

IUPAC Name: (2E,3E)-4-Ethyl-2-(hydroxyimino)-5-nitro-3-hexenamamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₃N₃O₄
Batch Molecular Weight: 215.21
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate)
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.65	6.09	19.53
Found	44.43	6	19.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

NO donor; exhibits vasorelaxant ($EC_{50} = 3.9$ nM) and antiplatelet activities ($IC_{50} = 4.9$ μ M). Cell permeable.

Physical and Chemical Properties:

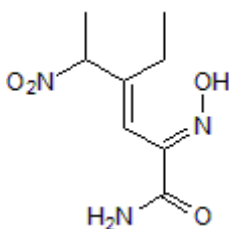
Batch Molecular Formula: $C_8H_{13}N_3O_4$

Batch Molecular Weight: 215.21

Physical Appearance: White crystalline solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Fukuyama et al (1997) Structure-activity relationships of spontaneous nitric oxide releasers, FK409 and its derivatives. *J.Pharmacol.Exp.Ther.* **282** 236. PMID: 9223559.

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