

Desiccate at -20°C

Print Date: Dec 10th 2018

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Product Name: FIT Catalog No.: 1480 Batch No.: 2

Certificate of Analysis

CAS Number: 85951-63-9

IUPAC Name: N-[1-[2-(4-Isothiocyanatophenyl)ethyl]-4-piperidinyl]-N-phenylpropanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇N₃OS **Batch Molecular Weight:** 393.55

Physical Appearance: White crystalline solid
Solubility: ethanol to 100 mM
DMSO to 10 mM

Batch Molecular Structure:

Storage:

2. ANALYTICAL DATA

TLC: R_f = 0.19 (Ethyl acetate:Petroleum ether [1:3])

Melting Point: At 100°C

HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen Sulfur

Theoretical 70.2 6.91 10.68 8.15 Found 70.35 6.95 10.71 7.87



Product Information

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IUPAC Name: N-[1-[2-(4-Isothiocyanatophenyl)ethyl]-4-piperidinyl]-N-phenylpropanamide

Description:

Selective and irreversible δ -opioid agonist (EC₅₀ = 8 nM); acts by alkylating the receptor.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₂₇N₃OS Batch Molecular Weight: 393.55

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at -20°C

Solubility & Usage Info:

ethanol to 100 mM DMSO to 10 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°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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Schoffelmeer *et al* (1988) μ -, δ- and κ-opioid receptor-mediated inhibition of neurotransmitter release and adenylate cyclase activity in rat brain slices: studies with fentanyl isothiocyanate. Eur.J.Pharmacol. *154* 169. PMID: 2906610.

Rothman *et al* (1985) Evidence that the delta-selective alkylating agent, fit, alters the mu-noncompetitive opiate delta binding site. Neuropeptides *6* 227. PMID: 2991807.

Rice et al (1983) Irreversible ligands with high selectivity toward δ or μ opiate receptors. Science 220 314. PMID: 6132444.