

## Nemifitide acetate(173240-15-8 free base)

## Chemical Properties

CAS No. :

Formula: C35H47FN10O8

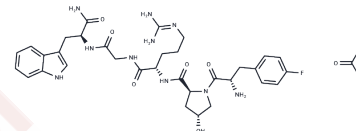
Molecular Weight: 754.85

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Nemifitide acetate(173240-15-8 free base) (INN 00835 acetate) is a synthetic pentapeptide antidepressant with a potential for rapid onset of action. It is a peptide analog of melanocyte-inhibiting factor (MIF).   |
| Targets(IC50) | 5-HT Receptor  |
| In vitro      | In-vitro studies indicate that both nemifitide and its active metabolite (M1) bind at micromolar concentrations to several receptors including the 5-HT2A, 5-HT2C, melanocortin MC4, MC5 and bombesin[3].  |
| In vivo       | Nemifitide (0.3 mg/kg; IP; daily; for 14 days) significantly increases swimming in the FSL rats after just 5 days of treatment and has long-lasting effect[2]. Nemifitide (0.0125-15.0 mg/kg) significantly increases swimming in the FSL rats at both low (0.025-0.3 mg/kg) and high (3.0-15.0 mg/kg) doses but not at intermediate (0.4-2.4 mg/kg) doses[2]. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 10 mM, Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

### Preparing Stock Solutions

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|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.3248 mL | 6.6238 mL | 13.2477 mL |
| 5 mM  | 0.265 mL  | 1.3248 mL | 2.6495 mL  |
| 10 mM | 0.1325 mL | 0.6624 mL | 1.3248 mL  |
| 50 mM | 0.0265 mL | 0.1325 mL | 0.265 mL   |

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Kelly JP, et al. The effect of treatment with a new antidepressant, INN 00835, on platelet serotonin uptake in depressed patients. *J Affect Disord.* 1999 Oct;55(2-3):231-5.

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