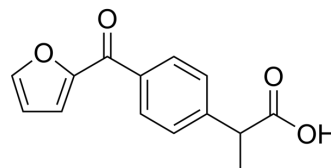


## Furprofen

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-106907                                      |       |          |
| CAS No.:           | 66318-17-0                                     |       |          |
| Molecular Formula: | C <sub>14</sub> H <sub>12</sub> O <sub>4</sub> |       |          |
| Molecular Weight:  | 244.24   |       |          |
| Target:            | PGE synthase                                   |       |          |
| Pathway:           | Immunology/Inflammation                        |       |          |
| Storage:           | Pure form                                      | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent                                     | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

Ethanol : 100 mg/mL (409.43 mM; Need ultrasonic)  
 DMSO : 62.5 mg/mL (255.90 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 4.0943 mL | 20.4717 mL | 40.9433 mL |
|                           | 5 mM                  | 0.8189 mL | 4.0943 mL  | 8.1887 mL  |
|                           | 10 mM                 | 0.4094 mL | 2.0472 mL  | 4.0943 mL  |

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.17 mg/mL (8.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.17 mg/mL (8.88 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Furprofen is a non-steroidal anti-inflammatory drug (NSAID) with analgesic properties<sup>[1]</sup>. Furprofen acts via the inhibition of prostaglandin (PGE) synthesis. Furprofen can be treated orally for the relief of pain<sup>[2][3]</sup>.

#### IC<sub>50</sub> & Target

PGE<sup>[1]</sup>

### CUSTOMER VALIDATION

- 
- J Chromatogr B Analyt Technol Biomed Life Sci. 2020 May 1;1144:122082.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Carlucci G, et al. A high performance liquid chromatographic procedure for the simultaneous determination of norfloxacin and furprofen in rat plasma. Biomed Chromatogr. 1993 May-Jun;7(3):126-8.
- [2]. Locatelli M, et al. Microextraction by packed sorbent and high performance liquid chromatography determination of seven non-steroidal anti-inflammatory drugs in human plasma and urine. J Chromatogr A. 2014 Nov 7;1367:1-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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