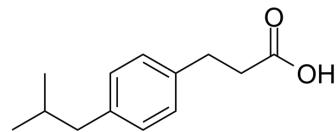


## Ibuprofen Impurity F

<b>Cat. No.:</b>	HY-131259		
<b>CAS No.:</b>	65322-85-2		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>18</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	206.28		
<b>Target:</b>	COX		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (484.78 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	4.8478 mL	24.2389 mL	48.4778 mL
	<b>5 mM</b>	0.9696 mL	4.8478 mL	9.6956 mL
	<b>10 mM</b>	0.4848 mL	2.4239 mL	4.8478 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ibuprofen Impurity F is an Ibuprofen impurity. Ibuprofen is an anti-inflammatory inhibitor targeting COX-1 and COX-2 with IC <sub>50</sub> s of 13 μM and 370 μM, respectively <sup>[1]</sup> .
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### REFERENCES

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[1]. Noreen Y, et al. Development of a radiochemical cyclooxygenase-1 and -2 in vitro assay for identification of natural products as inhibitors of prostaglandin biosynthesis. J Nat Prod. 1998 Jan;61(1):2-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA