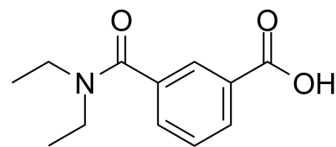


## DCBA

<b>Cat. No.:</b>	HY-136612		
<b>CAS No.:</b>	72236-23-8		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>15</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	221.25		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<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 (451.98 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	4.5198 mL	22.5989 mL	45.1977 mL
	<b>5 mM</b>	0.9040 mL	4.5198 mL	9.0395 mL
	<b>10 mM</b>	0.4520 mL	2.2599 mL	4.5198 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 (11.30 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 (11.30 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (11.30 mM); Clear solution</li> </ol>			

## BIOLOGICAL ACTIVITY

<b>Description</b>	DCBA is a metabolite of insect repellent N-N-diethyl-meta-toluamide (DEET). The concentration of DCBA in urine can assess exposure to DEET <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Drug Metabolite <sup>[1]</sup>

## REFERENCES

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[1]. Lewis RC, et, al. Urinary biomarkers of exposure to insecticides, herbicides, and one insect repellent among pregnant women in Puerto Rico. Environ Health. 2014 Nov 19; 13:97.

[2]. Peter K, et, al. On-line solid phase extraction-high performance liquid chromatography-isotope dilution-tandem mass spectrometry approach to quantify N,N-diethyl-m-toluamide and oxidative metabolites in urine. Anal Chim Acta. 2013 Jul 17; 787: 267-73.

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

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