## W36017

Cat. No.:	HY-145482
CAS No.:	21236-54-4
Molecular Formula:	C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O
Molecular Weight:	206.28
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

### SOLVENT & SOLUBILITY

DMSO : 100 mg/mL (484.78 mM; Need ultrasonic)						
	Solvent Mass Concentration	1 mg	5 mg	10 mg		
Preparing Stock Solutions	1 mM	4.8478 mL	24.2389 mL	48.4778 mL		
	5 mM	0.9696 mL	4.8478 mL	9.6956 mL		
	10 mM	0.4848 mL	2.4239 mL	4.8478 mL		
Please refer to the sol	ubility information to select the app	propriate solvent.				
	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	Preparing Stock Solutions Please refer to the sol 1. Add each solvent of Solubility: ≥ 2.5 mg 2. Add each solvent of Solubility: ≥ 2.5 mg 3. Add each solvent of	Preparing Stock Solutions       Solvent Concentration       Mass Solvent         1 mM       1 mM         5 mM       10 mM         Please refer to the solubility information to select the appendic solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution       1. Add each solvent one by one: 10% DMSO >> 40% PEC Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution         2. Add each solvent one by one: 10% DMSO >> 90% (20 Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution         3. Add each solvent one by one: 10% DMSO >> 90% core	Solvent       Mass       1 mg         Preparing       1 mM       4.8478 mL         Stock Solutions       5 mM       0.9696 mL         10 mM       0.4848 mL         Please refer to the solubility information to select the appropriate solvent.         1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-8 Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution         2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution         3. Add each solvent one by one: 10% DMSO >> 90% corn oil	Solvent       Mass       1 mg       5 mg         Preparing       1 mM       4.8478 mL       24.2389 mL         Stock Solutions       5 mM       0.9696 mL       4.8478 mL         10 mM       0.4848 mL       2.4239 mL         Please refer to the solubility information to select the appropriate solvent.       2.4239 mL         Please refer to the solubility information to select the appropriate solvent.       1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution         2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution       3. Add each solvent one by one: 10% DMSO >> 90% corn oil		

BIOLOGICAL ACTIVITY				
Description	W3601 is the impurity of Lidocaine. W3601 exhibits nerve blocking activity with the $pK_a$ of 7.4 <sup>[1]</sup> .			

#### REFERENCES

[1]. J A Wildsmith, et al. Differential nerve blockade: esters v. amides and the influence of pKa. Br J Anaesth. 1987 Mar;59(3):379-84.



# Product Data Sheet

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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

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