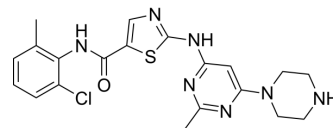


## N-Deshydroxyethyl Dasatinib

<b>Cat. No.:</b>	HY-107447
<b>CAS No.:</b>	910297-51-7
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>22</sub> ClN <sub>7</sub> OS
<b>Molecular Weight:</b>	443.95
<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    2 years -20°C    1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 55 mg/mL (123.89 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.2525 mL	11.2625 mL	22.5251 mL
		5 mM	0.4505 mL	2.2525 mL	4.5050 mL
10 mM		0.2253 mL	1.1263 mL	2.2525 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: ≥ 2.75 mg/mL (6.19 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (6.19 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.75 mg/mL (6.19 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	N-Deshydroxyethyl Dasatinib (N-Deshydroxyethyl BMS-354825) is a metabolite of Dasatinib, Dasatinib is a multi-kinase inhibitor that potently inhibits Bcr-Abl, Src family and platelet-derived growth factor receptor kinases. N-Deshydroxyethyl Dasatinib can be used in cancer and immune disease research <sup>[1][2]</sup> .
<b>In Vivo</b>	Pharmacokinetic Parameters of N-Deshydroxyethyl Dasatinib in Wistar Rats <sup>[2]</sup> .

Analyte	C <sub>max</sub> (ng/mL)	AUC <sub>0-t</sub> (h*ng/mL)	AUC <sub>0-inf</sub> (h*ng/mL)	T <sub>max</sub> (h)	T <sub>1/2</sub> (h)	K <sub>el</sub> (h <sup>-1</sup> )
N- Deshydroxyethyl Dasatinib	2.05	8.7	23.9	2.0	10.293	0.072

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

- [1]. Thappali SR, et al. Simultaneous determination of methotrexate, dasatinib and its active metabolite N- deshydroxyethyl dasatinib in rat plasma by LC-MS/MS: method validation and application to pharmacokinetic study. *Arzneimittelforschung*. 2012 Dec;62(12):624-30.
- [2]. Shibata N, et al. Development of protein degradation inducers of oncogenic BCR-ABL protein by conjugation of ABL kinase inhibitors and IAP ligands. *Cancer Sci*. 2017 Aug;108(8):1657-1666.

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

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