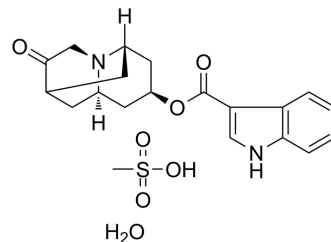


## Dolasetron Mesylate hydrate

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-B0750B  |
| <b>CAS No.:</b>           | 878143-33-0  |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>26</sub> N <sub>2</sub> O <sub>7</sub> S  |
| <b>Molecular Weight:</b>  | 438.49   |
| <b>Target:</b>            | 5-HT Receptor  |
| <b>Pathway:</b>           | GPCR/G Protein; Neuronal Signaling   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

|   |   |                          |              |            |            |
|---|---|--------------------------|--------------|------------|------------|
| <b>In Vitro</b>   | DMSO : 250 mg/mL (570.14 mM; Need ultrasonic)   |                          |              |            |            |
|   |   | Solvent<br>Concentration | Mass<br>1 mg | 5 mg       | 10 mg      |
|   | <b>Preparing Stock Solutions</b>  | 1 mM                     | 2.2806 mL    | 11.4028 mL | 22.8055 mL |
|   |   | 5 mM                     | 0.4561 mL    | 2.2806 mL  | 4.5611 mL  |
|   |   | 10 mM                    | 0.2281 mL    | 1.1403 mL  | 2.2806 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<br/>Solubility: ≥ 2.08 mg/mL (4.74 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.08 mg/mL (4.74 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.08 mg/mL (4.74 mM); Clear solution</li> </ol> |                          |              |            |            |

### BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | Dolasetron Mesylate hydrate (MDL-73147EF hydrate) is a serotonin 5-HT <sub>3</sub> receptor antagonist used to treat nausea and vomiting following chemotherapy. |
| <b>IC<sub>50</sub> &amp; Target</b> | 5-HT <sub>3</sub> Receptor   |

### REFERENCES

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[1]. Faria C, et al. Outcomes Associated with 5-HT<sub>3</sub>-RA Therapy Selection in Patients with Chemotherapy-Induced Nausea and Vomiting: A Retrospective Claims Analysis. Am Health Drug Benefits. 2014 Jan;7(1):50-8.

[2]. Schwartzberg L, et al. Pooled analysis of phase III clinical studies of palonosetron versus ondansetron, dolasetron, and granisetron in the prevention of chemotherapy-induced nausea and vomiting (CINV). Support Care Cancer. 2014 Feb;22(2):469-77.

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

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