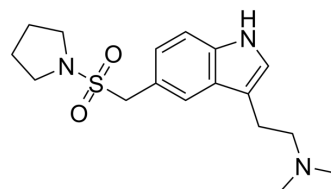


## Almotriptan

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-B0383A  |
| CAS No.:           | 154323-57-6  |
| Molecular Formula: | C <sub>17</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub> S                                |
| Molecular Weight:  | 335.46   |
| Target:            | 5-HT Receptor  |
| Pathway:           | GPCR/G Protein; Neuronal Signaling   |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |  |                       |      |       |           |            |            |
|---|--|-----------------------|------|-------|-----------|------------|------------|
| In Vitro  | DMSO : 100 mg/mL (298.10 mM; Need ultrasonic)  |                       |      |       |           |            |            |
|   | Preparing Stock Solutions  | Solvent Concentration | Mass | 1 mg  | 5 mg      | 10 mg      |            |
|   |  |                       |      | 1 mM  | 2.9810 mL | 14.9049 mL | 29.8098 mL |
|   |  |                       |      | 5 mM  | 0.5962 mL | 2.9810 mL  | 5.9620 mL  |
|   |  |                       |      | 10 mM | 0.2981 mL | 1.4905 mL  | 2.9810 mL  |
| Please refer to the solubility information to select the appropriate solvent. |  |                       |      |       |           |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (7.45 mM); Clear solution |                       |      |       |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (7.45 mM); Clear solution            |                       |      |       |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (7.45 mM); Clear solution                            |                       |      |       |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |   |                             |
|---------------------------|---|-----------------------------|
| Description               | Almotriptan is a selective agonist of 5-HT <sub>1B</sub> /1D Receptor. Almotriptan can used in study of migraine attacks <sup>[1]</sup> . |                             |
| IC <sub>50</sub> & Target | 5-HT <sub>1B</sub> Receptor   | 5-HT <sub>1D</sub> Receptor |

### REFERENCES

[1]. Bou J, et al. Pharmacological characterization of almotriptan: an indolic 5-HT receptor agonist for the treatment of migraine. Eur J Pharmacol, 2000. 410(1): p. 33-41.

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[2]. Gras J, et al. Safety profile of almotriptan, a new antimigraine agent. Effects on central nervous system, renal function and respiratory dynamics. *Arzneimittelforschung*, 2001. 51(9): p. 726-32.

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

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