

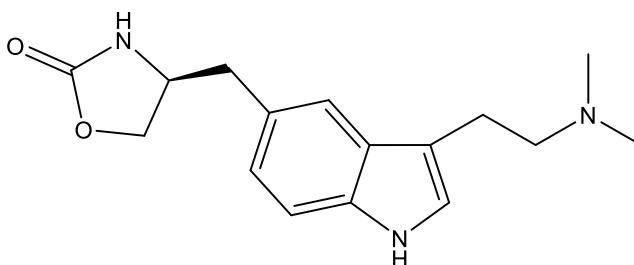
**Catalog # 10-2663**

**Zolmitriptan**

CAS# 139264-17-8

(4S)-4-((3-(2-(Dimethylamino)ethyl)-1H-indol-5-yl)methyl)-2-oxazolidinone; BW 311C90

Lot # X107392



Potent and selective serotonin 5HT<sub>1B/1D</sub> agonist ( $K_i=0.63$  and  $5.01$  nM for 5HT<sub>1D</sub> and 1B respectively.<sup>1</sup> Displays proven efficacy for the treatment of migraine.<sup>2</sup> Inhibits neurogenic inflammation and pain during electrical stimulation in human skin.<sup>3</sup> Induces nerve growth, integration and function in transplanted heterologous organs in regenerative medicine.<sup>4</sup>

- 1) Pauwels *et al.* (1997), *How efficacious are 5-HTB/D receptor ligands: an answer from GTP gamma S binding studies with stably transfected C6-glia cell lines*; *Pharmacol.*, **36** 499
- 2) Martin *et al.* (1997), *Receptor specificity and trigemino-vascular inhibitor actions of a novel 5HT<sub>1B/1D</sub> receptor partial agonist, 311C90 (zolmitriptan)*; *Br. J. Pharmacol.*, **121** 157
- 3) Doring *et al.* (2015), *Zolmitriptan inhibits neurogenic inflammation and pain during electrical stimulation in human skin*; *Eur. J. Pain*, **19** 966
- 4) Blackiston *et al.* (2017), *Serotonergic stimulation induces nerve growth and promotes visual learning via posterior eye grafts in a vertebrate model of induced sensory plasticity*; *Regenerative Med.*, **2** 8

**PHYSICAL DATA**

|                        |   |
|------------------------|---|
| Molecular Weight:      | 287.36  |
| Molecular Formula:     | C <sub>16</sub> H <sub>21</sub> N <sub>3</sub> O <sub>2</sub>   |
| Purity:                | 98% by HPLC   |
|                        | NMR: (Conforms)   |
| Solubility:            | DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)   |
| Physical Description:  | White solid   |
| Storage and Stability: | Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month. |

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