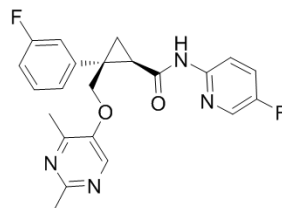


|                          |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : Lemborexant                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | : E-2006;E2006                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cat No.</b>           | : M11522                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>CAS Number</b>        | : 1369764-02-2                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Formula</b> | : C <sub>22</sub> H <sub>20</sub> F <sub>2</sub> N <sub>4</sub> O <sub>2</sub>                                                                                                                                                                                                                                                                                                                |
| <b>Formula Weight</b>    | : 410.42                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chemical Name</b>     | : Cyclopropanecarboxamide, 2-[[[(2,4-dimethyl-5-pyrimidinyl)oxy]methyl]-2-(3-fluorophenyl)-N-(5-fluoro-2-pyridinyl)-, (1R,2S)-                                                                                                                                                                                                                                                                |
| <b>Description</b>       | : An orally active, potent, selective, dual Orexin receptor OX1/2 antagonist with binding K <sub>i</sub> of 6/3 nM, respectively; exhibits an overall improvement in properties such as the TDI of CYP3A and aqueous solubility, high OXRs antagonist activity and sufficient brain penetration; demonstrates high efficacy in preclinical sleep experiments. Sleep Disorder Phase 3 Clinical |
| <b>Pathway</b>           | : GPCR/G Protein                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Target</b>            | : Orexin Receptor                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Receptor</b>          | : Orexin Receptor                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Solubility</b>        | : DMSO: ≥ 30 mg/mL                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SMILES</b>            | : <chem>O=C([C@H]1[C@@](C2=CC=CC(F)=C2)(COC3=CN=C(C)N=C3C)C1)NC4=NC=C(F)C=C4</chem>                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                             |



1. Yoshida Y, et al. J Med Chem. 2015 Jun 11;58(11):4648-64. 2. Beuckmann CT, et al. J Pharmacol Exp Ther. 2017 Aug;362(2):287-295.