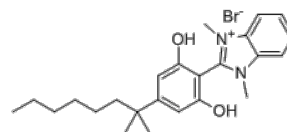


|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : AM9405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | : AM-9405; GAT379; GAT-379                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Cat No.</b>           | : M17035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CAS Number</b>        | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Formula</b> | : C <sub>24</sub> H <sub>33</sub> BrN <sub>2</sub> O <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formula Weight</b>    | : 461.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chemical Name</b>     | : 2-(2,6-dihydroxy-4-(2-methyloctan-2-yl)phenyl)-1,3-dimethyl-1H-benzo[d]imidazol-3-ium bromide                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>       | : AM9405 (AM-9405, GAT-379) is novel potent, peripherally active cannabinoid type 1 (CB1) and 5-HT <sub>3</sub> receptor agonist, inhibits the EFS-induced twitch contraction of the ileum and the colon with IC <sub>50</sub> of 0.076 and 45.71 nM, respectively; significantly slows mouse intestinal motility in physiological conditions, reverses hypermotility and reduced pain in mouse models mimicking symptoms of functional GI disorders, such as stress-induced diarrhea and writhing test. |
| <b>Pathway</b>           | : GPCR/G Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Target</b>            | : Cannabinoid Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Receptor</b>          | : Cannabinoid Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Solubility</b>        | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SMILES</b>            | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



1. Salaga M, et al. Eur J Pharmacol. 2018 Aug 17;836:34-43.