

Product Name	: Wilforine
Synonyms	: —
Cat No.	: M21433
CAS Number	: 11088-09-8
Molecular Formula	: C ₄₃ H ₄₉ NO ₁₈
Formula Weight	: 867.85
Chemical Name	: —
Description	: Wilforine is a sesquiterpene pyridine alkaloid; important bioactive compound in <i>T. wilfordii</i> plants and is effective in treating idiopathic pulmonary fibrosis. Wilforine has anti-inflammatory effect which might be mediated by down-regulation of the expression of inflammatory factors TNF- α IL-6 and NO. It also has insecticidal activity by inhibiting the Na ⁺ -K ⁺ -ATPase in the central nervous system.
Pathway	: Endocrinology/Hormones
Target	: ATPase
Receptor	: (NaK)-ATPase
Solubility	: —
SMILES	: <chem>C[C@@H](CCc1nccc1)c1C(OC[C@@](C)([C@@H]([C@H]1OC(C)=O)[C@H]([C@H]2OC(C)=O)OC(C)=O)O[C@@]1([C@](C)([C@H]([C@@H]1OC(c3ccccc3)=O)O3)O)[C@]2(COC(C)=O)[C@H]1OC(C)=O)C3=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Zhu C et al. Establishment of *Tripterygium wilfordii* Hook. f. Hairy root culture and optimization of its culture conditions for the production of triptolide and wilforine. *J Microbiol Biotechnol.* 2014 Jun 28;24(6):823-34.