

Product Name	: Clofilium tosylate
Synonyms	: —
Cat No.	: M26654
CAS Number	: 92953-10-1
Molecular Formula	: C ₂₈ H ₄₄ ClNO ₃ S
Formula Weight	: 510.2
Chemical Name	: —
Description	<p>Clofilium tosylate is a potassium channel blocker, induces apoptosis on human promyelocytic leukemia (HL-60) cells. (In Vitro): Treatment with 0-20 µM Clofilium inhibits viability and proliferation in a time- and concentration-dependent manner in HL-60 cells. Cell viability is significantly reduced in HL-60 cells treated with 2.5 µM to 10 µM Clofilium After 12 hours. Treatment with 10 µM Clofilium induces the proteolytic cleavage of inactive procaspase-3, p34 into its active form, p17 and subsequent cleavage of its substrate PARP. However, the expression of Bcl-2 and Bax proteins does not change significantly.</p>
Pathway	: Cell Cycle/DNA Damage
Target	: Potassium Channel
Receptor	: —
Solubility	: —
SMILES	: <chem>Cc1ccc(cc1)S([O-])(=O)=O.CCCCCC[N+](CC)(CC)CCCCc1ccc(Cl)cc1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Nabavi SF, et al. Neuroprotective effects of methyl-3-O-methyl gallate against sodium fluoride-induced oxidative stress in the brain of rats. Cell Mol Neurobiol. 2013 Mar;33(2):261-7.