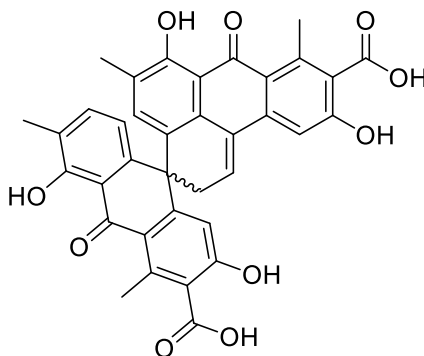


spiro-Oxanthromicin A

Code No.: **BIA-O2289**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms :

Specifications

CAS #	: 1616622-10-6
Molecular Formula	: C ₃₆ H ₂₆ O ₁₀
Molecular Weight	: 618.6
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

spiro-Oxanthromicin was first isolated from a soil-derived *Streptomyces* sp. by Capon and co-workers in 2014. *spiro*-Oxanthromicin inhibits mislocalisation of the oncogenic mutant K-Ras from the plasma membrane of intact Madin-Darby canine kidney (MDCK) cells (IC₅₀ 27 μM) and is highly synergistic with its co-metabolites including (±)-oxanthromicin in this assay. *spiro*-Oxanthromicin inhibits *Bacillus cereus* (MIC 12.5 μg/mL) but was inactive against HSV-1, *Mycobacterium tuberculosis* H37Ra and phytopathogenic fungi. *spiro*-Oxanthromicin shows minimal cytotoxicity.

References

1. Rare *Streptomyces* sp. polyketides as modulators of K-Ras localisation. Salim A. et al. *Org Biomol Chem.* 2014, 12, 4872.
2. Anthrone derivatives from the terrestrial actinomycete, *Actinomadura* sp. BCC47066. Bunbamrungra N. et al. *Phytochem Lett.* 2018, 25, 109.