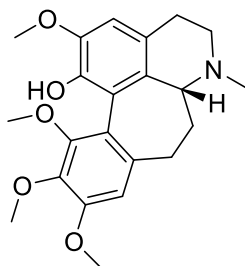


Kreysigine

Code No.: **BIA-K1945**

Pack sizes: **1 mg, 5 mg**



Synonyms : (-)-Kreysigine, Kreysigin

Specifications

CAS #	: 23117-57-9
Molecular Formula	: C ₂₂ H ₂₇ NO ₅
Molecular Weight	: 385.45
Source	: <i>Tripladenia cunninghamii</i>
Appearance	: Cream solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Kreysigine ((-)-kreysigine) was first isolated from *Kreysigia multiflora*, a member of the Liliaceae family, in 1960 by Badger and Bradbury, University of Adelaide, Australia. Kreysigine and its analogue floramultine can be biosynthesised in *Kreysigia multiflora* shoots treated with autumnaline *in vivo* by direct coupling. Kreysigine causes dose dependent relaxation of rat ileal smooth muscle (EC₅₀ 5.7×10⁻⁵ M), which could be mediated through the elevation of intracellular cyclic nucleotides, eventually decreasing cytosolic calcium concentration. Kreysigine reduces gastrointestinal motility.

References

1. Alkaloids of *Kreysigia multiflora*. I. Isolation. Badger G.M. & Bradbury R.B. J Chem Soc. 1960, 445.
2. Biosynthesis of homoaporphines. Battersby A.L. et al. J Chem Soc. 1969, 18, 1066.
3. Effects of kreysigine, an alkaloid isolated from *Colchicum decaisnea* on ileum smooth muscle and intestinal motility of rats. Qnais E.Y. et al. Int J Pharmacol. 2006, 2, 451.