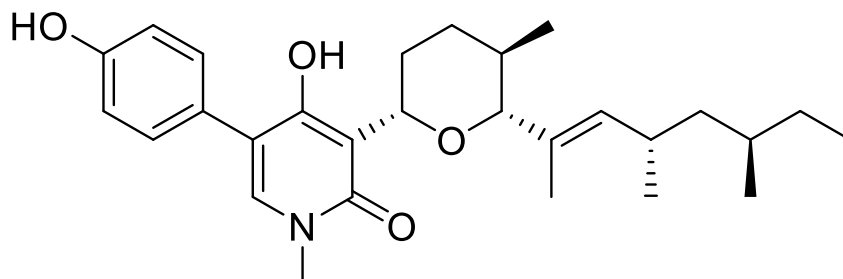


Sambutoxin

Code No.: **BIA-S3085**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : (-)-Sambutoxin

Specifications

CAS #	: 160047-56-3
Molecular Formula	: C ₂₈ H ₃₉ NO ₄
Molecular Weight	: 453.6
Source	: <i>Fusarium</i> sp.
Appearance	: Tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol and DMSO.

Application Notes

Sambutoxin is a 4-hydroxy-2-pyridone fungal metabolite initially produced by *Fusarium sambucinum* isolated from rotted potato tubers by Kim and co-workers, Seoul National University, Korea in 1995. Sambutoxin is a potent and selective inhibitor of mitochondrial respiration. Sambutoxin inhibits platelet aggregation, decreases platelet activating factor-induced disaggregation time in a dose-dependent manner and decreases thrombin and arachidonic acid-induced ATP release. Sambutoxin has remarkable antiproliferative effects, inhibiting ROS production and inducing G2/M arrest and apoptosis by activating the mitochondrial apoptosis pathway.

References

1. Kim J-C. et al. (1995). Sambutoxin: A new mycotoxin isolated from *Fusarium sambucinum*. *Tetrahedron Lett.*, 36, 1047.
2. Kawai K. et al. (1997). A novel respiratory chain inhibitor, sambutoxin from *Fusarium sambucinum*. *Cereal Res. Commun.*, 25, 325.
3. Hong C.M. et al. (1998). Effects of sambutoxin on the rabbit platelet aggregation. *J. Toxicol. Public Health*, 14, 333.
4. Li L-N. et al. (2018). Discovery and characterization of 4-hydroxy-2-pyridone derivative sambutoxin as a potent and promising anticancer drug candidate: Activity and molecular mechanism. *Mol. Pharmaceutics*, 15, 4898.

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