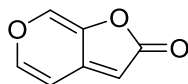


Karrikin 2

Code No.: **BIA-K1792**

Pack sizes: **0.25 mg, 1 mg**



Synonyms : KAR2

Specifications

CAS #	: 857054-03-6
Molecular Formula	: C ₇ H ₄ O ₃
Molecular Weight	: 136.1
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Karrikin 2, found in smoke water extracts, acts as a key germination trigger for many species from fire-prone Mediterranean climates, but is also active in plants from temperate regions. Karrikin 2 is more active than karrikinolide and KAR3 in promoting the germination response of *Arabidopsis* (PD Ler ecotype) seeds, at concentrations as low as 10 nM.

References

1. Identification of alkyl substituted 2H-furo[2,3-c]pyran-2-ones as germination stimulants present in smoke. Flematti G.R. J. Agric. Food Chem. 2009, 57, 9475.
2. Karrikins discovered in smoke trigger *Arabidopsis* seed germination by a mechanism requiring gibberellic acid synthesis and light. Nelson D.C. et al., Plant Physiol. 2009, 149, 863.