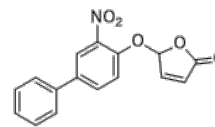


Product Name : dMGer
Cat. No. : PC-24060
CAS No. : 2975602-21-0
Molecular Formula : C₁₆H₁₁NO₅
Molecular Weight : 297.27
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2975602-21-0

Biological Activity

dMGer (DesmethylGerminone) is a potent and selective **HTL/KAI2** (KAI2, Karrikin Insensitive 2) agonist, inhibits KAI2-dependent dMYLG hydrolysis with IC₅₀ of 46 nM.

dMGer is a more specific KAI2 agonist than Germinone (Ger).

dMGer clearly lowered the melting temperature of KAI2 in DSF assays, but not Ger.

dMGer specifically induces the interaction between KAI2 and SMAX1.

dMGer retains the ability to simply bind to DWARF14 (D14).

dMGer is a potent seed germination stimulant that functions as a chemical agonist of the KAI2 receptor and bypasses the GA-dependent pathway.

References

Okabe S, et al. *Biochem Biophys Res Commun*. 2023 Mar 15;649:110-117.

Kushihara R, et al. *Proc Natl Acad Sci U S A*. 2025 Feb 25;122(8):e2414779122.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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