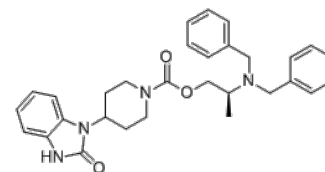

| | |
|--------------------------|---|
| Product Name | : Galvestine-1 |
| Cat. No. | : PC-62193 |
| CAS No. | : 1087311-82-7 |
| Molecular Formula | : C ₃₀ H ₃₄ N ₄ O ₃ |
| Molecular Weight | : 498.627 |
| Target | : Other Targets |
| Solubility | : 10 mM in DMSO |



Biological Activity

Galvestine-1 is a small molecule **MGDG (monogalactosyldiacylglycerol) synthase** inhibitor with IC₅₀ of 10 μM by competing with diacylglycerol binding.

Galvestine-1 shows effect of root uptake, circulation in the xylem and mesophyll, inhibition of MGDs in vivo causing a reduction of MGDG content and impairment of chloroplast development in *Arabidopsis thaliana*.

Galvestine-1 is a unique tool to study lipid homeostasis in plants.

References

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Boudière L, et al. *Mol Biosyst*. 2012 Aug;8(8):2023-35, 2014.

Botella C, et al. *Plant Physiol*. 2016 Mar;170(3):1300-14.

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

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