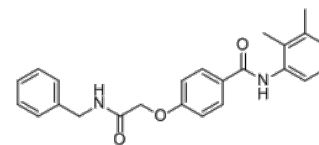


Product Name : MEISi-1
Cat. No. : PC-20504
CAS No. : 446306-43-0
Molecular Formula : C₂₄H₂₄N₂O₃
Molecular Weight : 388.47
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 446306-43-0

Biological Activity

MEISi-1 (MEIS inhibitor 1) is a specific small molecule inhibitor of **MEIS1** (Meis1), significantly inhibits MEIS1 protein activity in MEIS-luc reporter assays at 0.1 μ M, modulates hematopoietic stem cell (HSC) activity.

MEISi-1 (0.1-10 μ M) induced MEIS dependent hematopoietic stem cell maintenance and self-renewal.

MEISi-1 downregulated MEIS target gene expression (Hif-1 α , Hif-2 α , and HSC quiescence modulators Foxo3, Nfat5, and Ptpmt1).

MEISi-1 functionally inhibited MEIS in vivo, induces c-Kit⁺ cell, Sca1⁺ cell, CD150⁺cell, LSK HSPCs, LSKCD34^{low} HSC content and LSKCD150⁺CD48⁻HSC content.

MEISi-1 was effective in vivo as evident by induced HSC content in the murine bone marrow and downregulation of expression of MEIS target genes.

References

Raife Dilek Turan, et al. *Sci Rep.* 2020 May 14;10(1):7994.

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

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