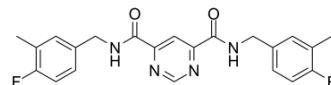


DB04760

Cat. No.:	HY-125166
CAS No.:	544678-85-5
Molecular Formula:	C ₂₂ H ₂₀ F ₂ N ₄ O ₂
Molecular Weight:	410.42
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	DB04760 (compound 4) is a potent, highly selective, non-zinc-chelating MMP-13 inhibitor with an IC₅₀ of 8 nM ^[1] . DB04760 significantly reduces paclitaxel neurotoxicity and has anticancer activity ^[2] .
IC ₅₀ & Target	MMP-13 8 nM (IC ₅₀)

REFERENCES

- [1]. Engel CK, et al. Structural basis for the highly selective inhibition of MMP-13. *Chem Biol.* 2005 Feb;12(2):181-9.
- [2]. Thomas S. Lisse, et al. Paclitaxel-induced epithelial damage and ectopic MMP-13 expression promotes neurotoxicity in zebrafish. *Proc Natl Acad Sci U S A.* 2016 Apr 12; 113(15): E2189–E2198.

Caution: Product has not been fully validated for medical applications. For research use only.

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