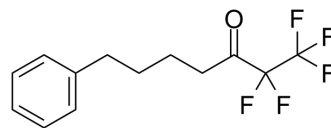


FKGK11

Cat. No.:	HY-116018
CAS No.:	1071000-98-0
Molecular Formula:	C ₁₃ H ₁₃ F ₅ O
Molecular Weight:	280.23
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FKGK11 is a potent and selective inhibitor of GVIA iPLA2 (Group VIA calcium-independent phospholipase A2). FKGK11 can be used for the research of ovarian cancer and neurological disorders such as peripheral nerve injury and multiple sclerosis ^{[1][2]} .
IC₅₀ & Target	PLA2
In Vitro	FKGK11 shows 99.4 ± 0.1% inhibition of GVIA iPLA2 and only 28 ± 1% for GV sPLA2 at 0.091 mole fraction ^[1] . FKGK11 reduces adhesion, migration, and invasion of EOC (epithelial ovarian cancer) cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	FKGK11 inhibits tumor development in the xenograft mouse model ^[2] . FKGK11 shows a significant increase in the number of macrophages and degenerating fibres with disrupted myelin sheaths in cPLA2 GIVA ^{-/-} mice and C57BL/6 mice ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kokotos G, et al. Potent and selective fluoroketone inhibitors of group VIA calcium-independent phospholipase A2. *J Med Chem*. 2010 May 13;53(9):3602-10.
- [2]. Yan Xu, et al. Abstract 3525: Targeting Group VIA phospholipase A2 using small molecules for ovarian cancer treatment. *Cancer Res* (2011) 71 (8_Supplement): 3525.
- [3]. López-Vales R, et al. Intracellular phospholipase A(2) group IVA and group VIA play important roles in Wallerian degeneration and axon regeneration after peripheral nerve injury. *Brain*. 2008 Oct;131(Pt 10):2620-31.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA