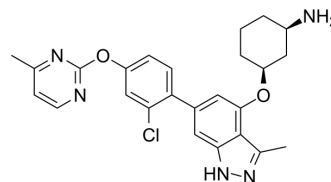


DS03090629

Cat. No.:	HY-164474
Molecular Formula:	C ₂₅ H ₂₆ ClN ₅ O ₂
Molecular Weight:	463.96
Target:	MEK
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

DS03090629 is an orally active MEK inhibitor that inhibits MEK activity in an ATP-competitive manner. DS03090629 exhibits high affinity for both MEK and phosphorylated MEK, with K_d values of 0.11 and 0.15 nM, respectively. It effectively inhibits the proliferation of BRAF-mutant overexpressing melanoma cell lines, with IC_{50} values of 74.3 and 97.8 nM for BRAF V600E and MEK1 F53L transfected A375 cells, respectively. DS03090629 holds potential value in the field of anti-melanoma therapy [1].

REFERENCES

[1]. Takano K, et al. Discovery of a Novel ATP-Competitive MEK Inhibitor DS03090629 that Overcomes Resistance Conferred by BRAF Overexpression in BRAF-Mutated Melanoma. *Mol Cancer Ther.* 2023 Mar 2;22(3):317-332.

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