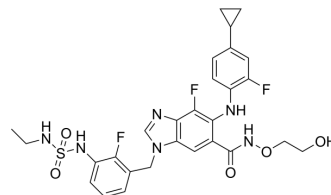


MEK/RAF-IN-1

Cat. No.:	HY-162873
Molecular Formula:	C ₂₈ H ₂₉ F ₃ N ₆ O ₅ S
Molecular Weight:	618.63
Target:	MEK; Raf
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MEK/RAF-IN-1 (Compound 16b) is an inhibitor of both MEK and RAF. It shows potent inhibition with IC ₅₀ values of 28 nM for MEK1, and 3 nM each for BRAF and BRAFV600E. MEK/RAF-IN-1 demonstrates significant antitumor activity, effectively inhibiting cell proliferation in vitro against MIA PaCa-2 (G12C KRAS), HCT116 (G13D KRAS), and C26 (G12D KRAS) cells. Additionally, it inhibits tumor growth in xenograft mouse models of colorectal cancer ^[1] .		
IC₅₀ & Target	MEK1 28 nM (IC ₅₀)	Braf 3 nM (IC ₅₀)	BRaf ^{V600E} 3 nM (IC ₅₀)

REFERENCES

[1]. Gonzalez-Del Pino GL, et al. Allosteric MEK inhibitors act on BRAF/MEK complexes to block MEK activation. Proc Natl Acad Sci U S A. 2021 Sep 7;118(36):e2107207118.

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

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