ITF5924

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-161306 2760854-72-4 C ₂₁ H ₁₈ F ₂ N ₈ O 436.42 HDAC Cell Cycle/DNA Damage; Epigenetics Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIV	
Description	ITF5924 (compound 1) is a potent and highly selective HDAC6 inhibitor with an IC ₅₀ of 7.7 nM. ITF5924 shows greater than 104-fold selectivity for HDAC6 over all other HDAC subtypes. ITF5924 containing a difluoromethyl-1,3,4-oxadiazole (DFMO) moiety is slow-binding substrate analog of HDAC6 that undergo an enzyme-catalyzed ring opening reaction, forming a tight and long-lived enzyme-inhibitor complex ^[1] .
IC ₅₀ & Target	HDAC6 7.7 nM (IC ₅₀)

REFERENCES

[1]. Edoardo Cellupica, et al. Difluoromethyl-1,3,4-oxadiazoles are slow-binding substrate analog inhibitors of histone deacetylase 6 with unprecedented isotype selectivity. J Biol Chem. 2023 Jan;299(1):102800.

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

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Product Data Sheet

