SW2_152F

Cat. No.: HY-147058

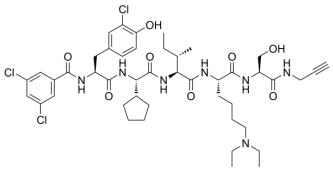
Molecular Formula: $C_{45}H_{62}Cl_3N_7O_8$

Molecular Weight: 935.37

Target: Histone Methyltransferase

Pathway: Epigenetics

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 175 mg/mL (187.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0691 mL	5.3455 mL	10.6910 mL
	5 mM	0.2138 mL	1.0691 mL	2.1382 mL
	10 mM	0.1069 mL	0.5345 mL	1.0691 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SW2_152F is a potent, selective chromobox 2 chromodomain (CBX2 ChD) inhibitor with a K_d of 80 nM. SW2_152F displays 24-1000-fold selectivity for CBX2 ChD over other CBX paralogs in vitro[1]. SW2_152F is a click chemistry reagent, itcontains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

Kd: 80 nM (chromobox 2 chromodomain)[1]

In Vitro

SW2_152F inhibits CBX2 chromatin binding in cells, and blocks neuroendocrine differentiation of prostate cancer cell lines in response to androgen deprivation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sijie Wang, et al. A Potent, Selective CBX2 Chromodomain Ligand and Its Cellular Activity During Prostate Cancer Neuroendocrine Differentiation. Chembiochem. 2021 Jul 1;22(13):2335-2344.

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

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