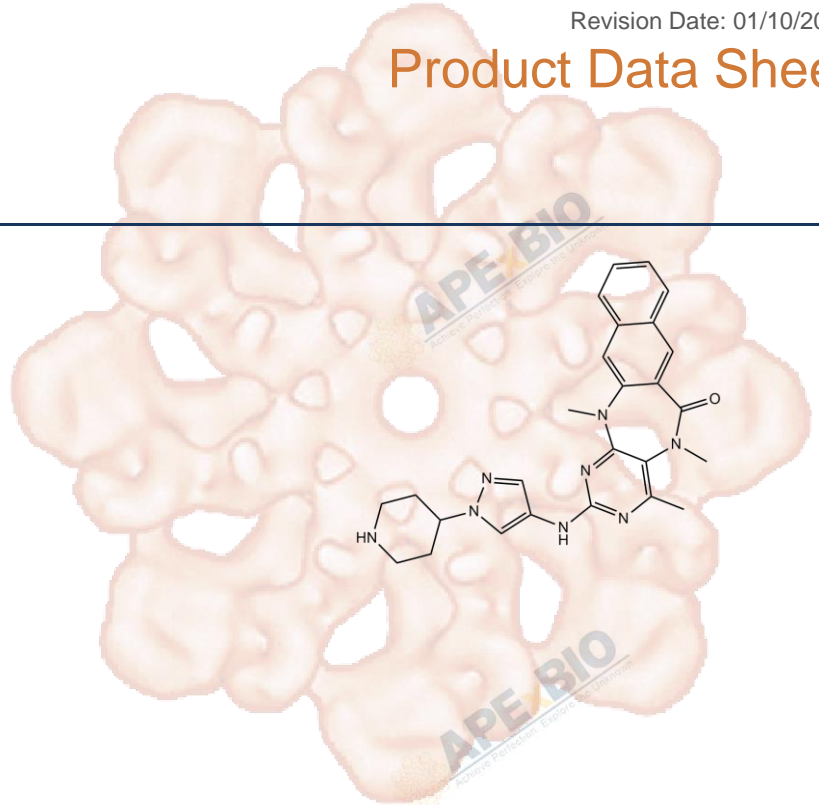


Product Data Sheet

HTH-01-015

Cat. No.:	A8890
CAS No.:	1613724-42-7
Formula:	C ₂₆ H ₂₈ N ₈ O
M.Wt:	468.55
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	AMPK
Storage:	Store at -20°C



Solvent & Solubility

≥23.45 mg/mL in DMSO; insoluble in H₂O; ≥14.67 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.1342 mL	10.6712 mL	21.3424 mL
	5 mM	0.4268 mL	2.1342 mL	4.2685 mL
	10 mM	0.2134 mL	1.0671 mL	2.1342 mL

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

Biological Activity

Shortsummary: NUAK1 inhibitor, highly specific and selective

IC₅₀ & Target: 100 nM (NUAK1)

In Vitro

Cell Viability Assay

Cell Line:	HEK293, MEFs and U2OS
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	37°C

	Applications:	In HEK-293 cells expressing wild-type NUAK1, 3–10 μM HTH-01-015 significantly inhibits phosphorylation of MYPT1. Treatment of NUAK1+/+ MEFs with 10 μM HTH-01-015 prominently suppresses cell migration in the wound-healing assay. In U2OS cells, HTH-01-015 blocks proliferation and phosphorylation of MYPT1 to the same extent as shRNA-mediated NUAK1 knockdown.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

1. Sourav B, Sara J B, Hai-Tsang H, et al. Characterization of WZ4003 and HTH-01-015 as selective inhibitors of the LKB1-tumour-suppressor-activated NUAK kinases. *Biochemical Journal*, 2014, 457(1): 215-225.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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