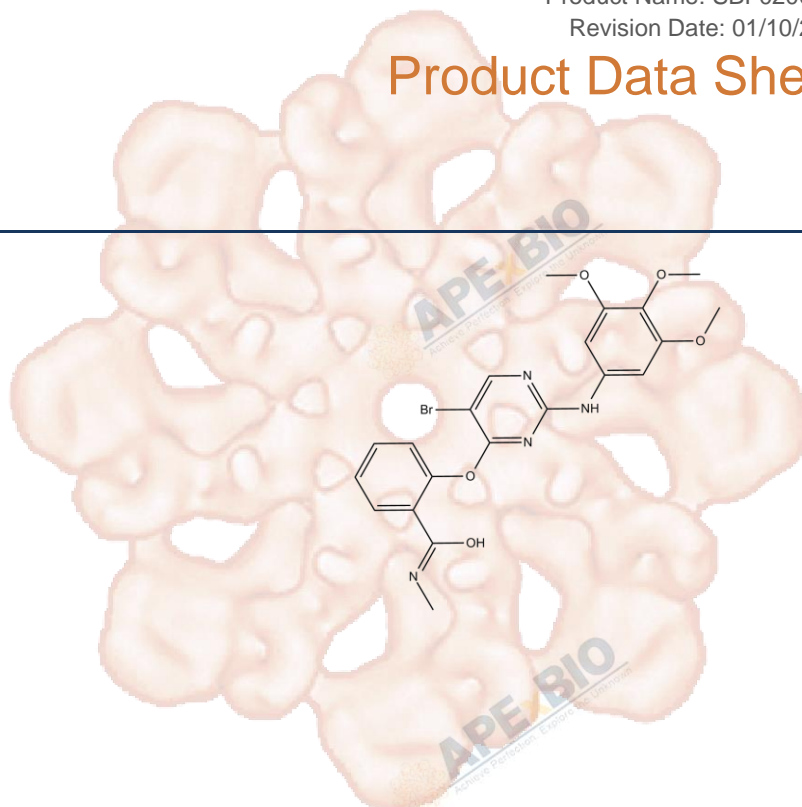


Product Data Sheet

SBI-0206965

Cat. No.:	A8715
CAS No.:	1884220-36-3
Formula:	C ₂₁ H ₂₁ BrN ₄ O ₅
M.Wt:	489.32
Synonyms:	
Target:	Ubiquitination/ Proteasome
Pathway:	Autophagy
Storage:	Store at -20°C



Solvent & Solubility

≥24.47 mg/mL in DMSO; insoluble in H₂O; ≥5 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.0437 mL	10.2183 mL	20.4365 mL
	5 mM		0.4087 mL	2.0437 mL	4.0873 mL
	10 mM		0.2044 mL	1.0218 mL	2.0437 mL

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

Biological Activity

Shortsummary

ULK1 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	HEK293T cells transfected with WT or KI Myc-tagged ULK1 and WT Vps34
Preparation method:	The solubility of this compound in DMSO is > 24.5mg/mL. 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:	1, 10 and 50 μM; 1 hr

	Applications:	In HEK293T cells transfected with WT or KI Myc-tagged ULK1 and WT Vps34, SBI-0206965 inhibited Ser249 phosphorylation of overexpressed Vps34 at the dose of ~ 5 μ M. In HEK293T cells, it was found that SBI-0206965 also inhibited the phosphorylation of Beclin1 Ser15 to comparable extents.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Dite TA, Langendorf CG, et al. "AMP-activated protein kinase selectively inhibited by the type II inhibitor SBI-0206965." J Biol Chem. 2018 Jun 8;293(23):8874-8885.PMID:29695504
2. Dite TA, Ling NXY, et al. "The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs." NatCommun. 2017 Sep 18;8(1):571.PMID:28924239

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References

- [1]. Egan DF, Chun MG, Vamos M et al. Small Molecule Inhibition of the Autophagy Kinase ULK1 and Identification of ULK1 Substrates. Mol Cell. 2015 Jul 16;59(2):285-97.

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. Shortterm 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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