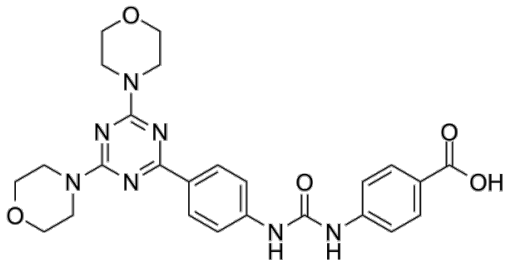
Product Data Sheet

Product Name: PI3K/mTOR ligand-1
Cat. No.: GC81042

Chemical Properties

Cas. No.	1197160-66-9		
Formula	$C_{25}H_{27}N_7O_5$	M.Wt	505.53
Solubility	DMSO: 25 mg/mL (49.45 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Product Data Sheet

PI3K/mTOR ligand-1 is a ligand for the target protein of PROTAC (PI3K / mTOR). PI3K/mTOR ligand-1 can be used to synthesize GP262 [1].

In Vitro, PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins.

References:

[1]. Zhu W, et al. Discovery of the First Potent PI3K/mTOR Dual-Targeting PROTAC Degrader for Efficient Modulation of the PI3K/AKT/mTOR Pathway. J Med Chem. 2025 Dec 25;68(24):26188-26205.

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

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