

Product Data Sheet

Product Name: iVeliparib-AP6

Cat. No.: GC80924

Chemical Properties

Cas. No. 2472645-27-3

Formula C₄₀H₅₃N₇O₁₁

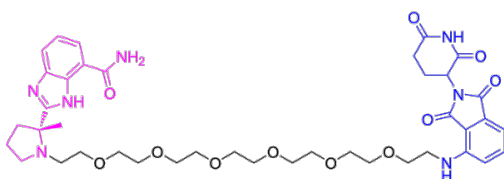
M.Wt 807.89

Solubility 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

iVeliparib-AP6 is a proteolysis-targeting chimera (PROTAC) molecule designed based on Veliparib, which targets PARP1/2. The DC₅₀s of iVeliparib-AP6 for inducing the degradation of PARP1 and PARP2 are 36 nM and 63 nM, respectively, and its IC₅₀s are 69 nM and 21 nM, respectively.

iVeliparib-AP6 contains a Veliparib-based PARP inhibitor warhead linked to a CRBN E3 ligase binder; it uses Thalidomide as a ligand to recruit CRBN E3 ubiquitin ligase and exerts the PARP2 degradation mechanism [1] [2]. (Pink: PARP-2 and PARP-1 ligand; Blue: Cereblon ligand; Black: linker).

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

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In Vitro, iVeliparib-AP6 (10 min) inhibits PARP1 and PARP2 catalytic activity in cell-free assays with IC₅₀ values of 69 nM and 21 nM, respectively^[1].

References:

- [1]. Wang S, et al. Uncoupling of PARP1 trapping and inhibition using selective PARP1 degradation. Nat Chem Biol. 2019;15(12):1223-1231.
- [2]. Cao C, et al. Discovery of SK-575 as a Highly Potent and Efficacious Proteolysis-Targeting Chimera Degradar of PARP1 for Treating Cancers. J Med Chem. 2020;63(19):11012-11033.

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