

## Product Data Sheet

Product Name: PARP11 inhibitor ITK7  
Cat. No.: GC69659

### Chemical Properties

Cas. No. 2411890-36-1

Formula  $C_{17}H_{14}N_4OS$  M.Wt 322.38

Solubility DMSO : 4 mg/mL (12.41 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, away from moisture and light

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

IC50: 14 nM (PARP11); 13 nM (PARP11-dependent auto-MARylation)<sup>[1]</sup>

PARP11 inhibitor ITK7 (ITK7) is a potent and selective **PARP11** inhibitor. PARP11 inhibitor ITK7 can potently inhibit PARP11 with an **IC50** value of 14 nM. PARP11 inhibitor ITK7 can be used for the research of cellular localization<sup>[1]</sup>.

PARP11 inhibitor ITK7 (ITK7)  PARP11  IC50  14 nM<sup>[1]</sup>

ITK7  PARP11  MARylation  EC50  13 nM<sup>[1]</sup>

ITK7 (0, 0.03, 0.1, 0.3, 1, 3 μM; 3 h)  PARP11  PARP11 <sup>[1]</sup>

Western Blot Analysis<sup>[1]</sup>

Cell Line: HeLa cells

Concentration: 0, 0.03, 0.1, 0.3, 1, 3 μM

**Caution: Product has not been fully validated for medical applications. For research use only.**  
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com  
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Incubation  
Time: 3 h

Result: Inhibited GFP-PARP11 auto-MARylation activity in a dose-dependent manner in HeLa cells.

[1]. Kirby, Ilsa T et al. A Potent and Selective PARP11 Inhibitor Suggests Coupling between Cellular Localization and Catalytic Activity. Cell chemical biology vol. 25,12 (2018): 1547-1553.e12.

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