

Product Data Sheet

Product Name: PHD-1-IN-1

Cat. No.: GC64584

Chemical Properties

Cas. No. 2009343-14-8

Formula C₁₃H₈N₄ M.Wt 220.23

Solubility DMSO : 195 mg/mL (885.44 mM; Storage Store at -20°C
Need ultrasonic)

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.

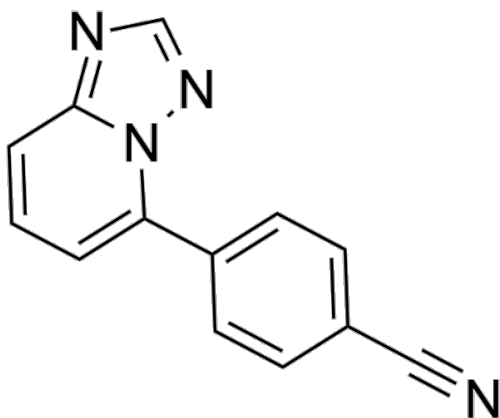
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

PHD-1-IN-1 is an orally active and potent HIF prolylhydroxylase domain-1 (PHD-1) inhibitor with an IC₅₀ of 0.034 μ M. PHD-1-IN-1 has a unique monodentate binding interaction with the active site Fe²⁺ ion and induces the formation of an "Arg367-out" pocket[1].

PHD-1-IN-1 (compound 17; 3 mg/kg of p.o. or 0.5 mg/kg of i.v.) has a C_{max} of 0.8 μ M, a AUC of 176 ng•h/mL, K_{p,uu} of 1.11 and B/P of 0.95[1].

[1]. Ahmed S, et al. 1,2,4-Triazolo-[1,5-a]pyridine HIF Prolylhydroxylase Domain-1 (PHD-1) Inhibitors With a Novel Monodentate Binding Interaction. J Med Chem. 2017 Jul 13;60(13):5663-5672.

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