

Product Data Sheet

Product Name: Ribociclib-d8

Cat. No.: GC73758

Chemical Properties

Cas. No. 2167898-24-8

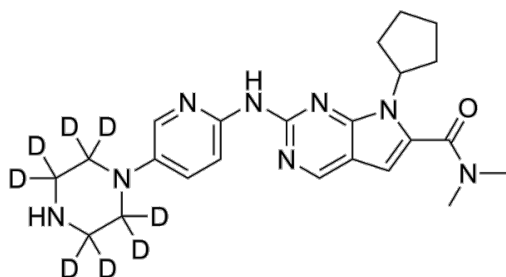
Formula $C_{23}H_{22}D_8N_8O$ M.Wt 442.59

Solubility DMSO : 100 mg/mL (225.94 mM; ultrasonic and warming and heat to 60°C) Storage -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

Ribociclib-dg is the deuterium labeled Ribociclib[1]. Ribociclib (LEE01) is a highly specific CDK4/6 inhibitor with IC50 values of 10 nM and 39 nM, respectively, and is over 1, 000-fold less potent against the cyclin B/CDK1 complex[2].

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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References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. VanArsdale T, et al. Molecular Pathways: Targeting the Cyclin D-CDK4/6 Axis for Cancer Treatment. *Clin Cancer Res*. 2015 Jul 1;21(13):2905-10.
- [3]. Rader J, et al. Dual CDK4/CDK6 Inhibition Induces Cell-Cycle Arrest and Senescence in Neuroblastoma. *Clin Cancer Res*. 2013 Nov 15;19(22):6173-82.

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