

Product Data Sheet

Product Name: DNL343

Cat. No.: GC71091

Chemical Properties

Cas. No. 2278265-85-1

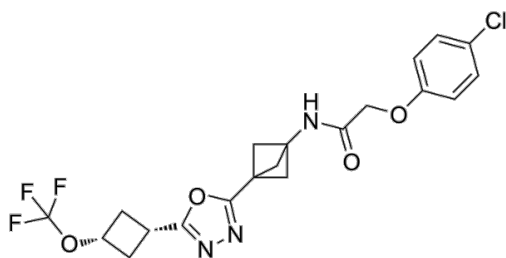
Formula $C_{20}H_{19}ClF_3N_3O_4$ M.Wt 457.83

Solubility DMSO : 100 mg/mL (218.42 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

DNL343 is a brain-penetrating activator of eukaryotic initiation factor 2B (eIF2B) that inhibits the abnormal integrated stress response (ISR). DNL343 inhibits ISR activity in the central nervous system (CNS) and reverses neurodegeneration and neuroinflammation. DNL343 also prevents motor dysfunction and premature death in eIF2B loss-of-function (LOF) mutant mice. DNL343 has inhibitory

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

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potential in studies of vanishing white matter disease (VWMD) driven by eIF2B LOF and chronic ISR activation.

References:

[1]. Yulyaningsih E, et al. DNL343 is an investigational CNS penetrant eIF2B activator that prevents and reverses the effects of neurodegeneration caused by the Integrated Stress Response[J]. bioRxiv, 2023: 2023.8.21.554203

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