
Product Data Sheet

Product Name: TTBK1-IN-2

Cat. No.: GC64877

Chemical Properties

Cas. No. 2765453-51-6

Formula C₁₈H₁₃ClN₄O

M.Wt 336.78

Solubility DMSO : 50 mg/mL (148.46 mM; ultrasonic and adjust pH to 2 with HCl) 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**

TTBK1-IN-2 (compound 29) is a potent Tau-Tubulin kinase (TTBK1) inhibitor with IC₅₀s of 0.24 and 4.22 μM, respectively. TTBK1-IN-2 reveals good brain penetration in vivo and is able to reduce TDP-43 phosphorylation not only in cell cultures but also in the spinal cord of transgenic TDP-43 mice[1].

[1]. Nozal V, et al. TDP-43 Modulation by Tau-Tubulin Kinase 1 Inhibitors: A New Avenue for Future Amyotrophic Lateral Sclerosis Therapy. J Med Chem. 2022;65(2):1585-1607.

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