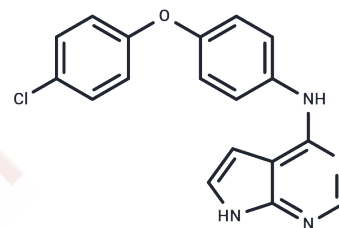


TTBK1-IN-2

Chemical Properties

CAS No. :	2765453-51-6
Formula:	C ₁₈ H ₁₃ ClN ₄ O
Molecular Weight:	336.77
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	TTBK1-IN-2 (N-[4-(4-chlorophenoxy)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-amine) is an inhibitor of Tau-Tubulin kinase (TTBK1) with IC ₅₀ s of 0.24 and 4.22 μM. TTBK1-IN-2 reduces TDP-43 phosphorylation both in cell cultures and the spinal cord of transgenic TDP-43 mice.
Targets(IC ₅₀)	Others, Microtubule Associated

Solubility Information

Solubility	DMSO: 55 mg/mL (163.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.94 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9694 mL	14.8469 mL	29.6939 mL
5 mM	0.5939 mL	2.9694 mL	5.9388 mL
10 mM	0.2969 mL	1.4847 mL	2.9694 mL
50 mM	0.0594 mL	0.2969 mL	0.5939 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481