

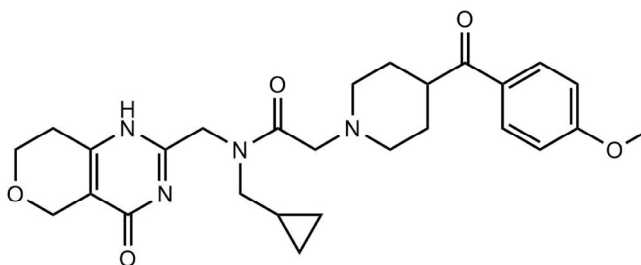
Certificate of Analysis

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Product Name:	NVP-TNKS656	Catalog No.:	8913	Batch No.:	1
CAS Number:	1419949-20-4				
IUPAC Name:	<i>N</i> -(Cyclopropylmethyl)-4-(4-methoxybenzoyl)- <i>N</i> -[(3,5,7,8-tetrahydro-4-oxo-4 <i>H</i> -pyrano[4,3- <i>d</i>]pyrimidin-2-yl)methyl]-1-piperidineacetamide				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₇ H ₃₄ N ₄ O ₅
Batch Molecular Weight:	494.58
Physical Appearance:	Off White solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	65.57	6.93	11.33
Found	64.57	7.1	10.93

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

NVP-TNKS656 is a potent inhibitor of tankyrase enzymes (pIC₅₀ values are 7.8 and 8.2 for TNSK1 and TNKS2 respectively). It displays >5000 selectivity over PARP1 and PARP2. In vivo, it disrupts Wnt pathway activity in the MMTV-Wnt1 mouse xenograft model. NVP-TNKS656 is used to generate neurons from epiblast stem cells. NVP-TNKS656 is orally bioavailable.

Physical and Chemical Properties:

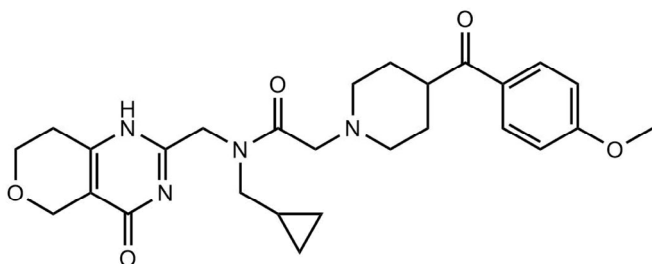
Batch Molecular Formula: C₂₇H₃₄N₄O₅

Batch Molecular Weight: 494.58

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Medina-Cano *et al* (2025) A mouse organoid platform for modeling cerebral cortex development and cis-regulatory evolution *in vitro*. Dev.Cell doi: 10.1016/j.devce. PMID: 40876454.

Shultz *et al* (2013) Identification of NVP-TNKS656: the use of structure-efficiency relationships to generate a highly potent, selective, and orally active tankyrase inhibitor. J.Med.Chem. **56** 6495. PMID: 23844574.

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