

Certificate of Analysis

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Product Name: JP-2-196 alkyne

Catalog No.: 8047

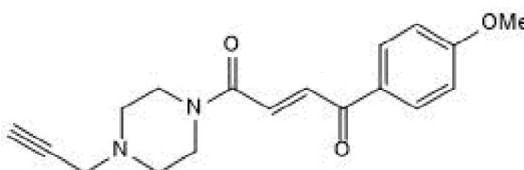
Batch No.: 1

CAS Number: 2901113-25-3

IUPAC Name: 1-(4-Methoxyphenyl)-4-[4-(2-propyn-1-yl)-1-piperazinyl]-2-butene-1,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₂O₃
Batch Molecular Weight: 312.37
Physical Appearance: Cream solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5 % purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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Description:

JP-2-196 alkyne is a covalent RNF126 chemical handle that binds to several other RING E3 ubiquitin ligases including RNF14, RNF40, RNF219, MID2, and LRSAM1. By facilitating E3 ligase recruitment, JP-2-196 alkyne induces proteasomal degradation of diverse target proteins. It serves as a modular scaffold for the design and synthesis of molecular glue degraders. JP-2-196 alkyne is an alkyne functionalized version of JP-2-196 (Cat. No. 8046).

Physical and Chemical Properties:

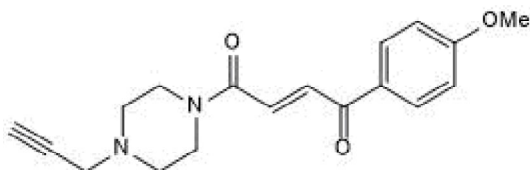
Batch Molecular Formula: C₁₈H₂₀N₂O₃

Batch Molecular Weight: 312.37

Physical Appearance: Cream solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Toriki *et al* (2023) Rational chemical design of molecular glue Degradors. ACS Cent.Sci. **9** 915. PMID: 37252349.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

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