

Product Name: T 112

Catalog No.: 7690

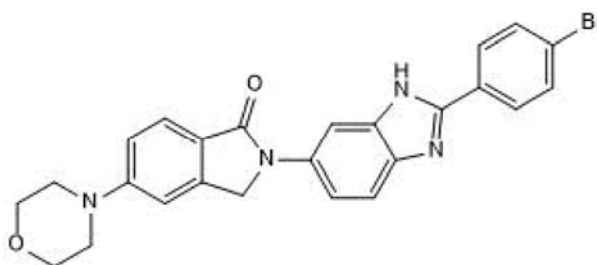
Batch No.: 1

CAS Number: 2376876-87-6

IUPAC Name: 2-[2-(4-Bromophenyl)-1*H*-benzimidazol-6-yl]-2,3-dihydro-5-(4-morpholinyl)-1*H*-isoindol-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₁BrN₄O₂
Batch Molecular Weight: 489.37
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	61.36	4.33	11.45
Found	61.33	4.35	11.34

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

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Description:

T 112 is an estrogen-related receptor gamma (ERR γ) agonist. Promotes maturation of hiPSC-derived cardiomyocytes. T 112 accelerates metabolic and sarcomere maturation in cardiomyocytes, as well as maturation of contractile and electrophysiological properties and ultrastructure organization, when used alone or in combination with other small molecules.

Physical and Chemical Properties:

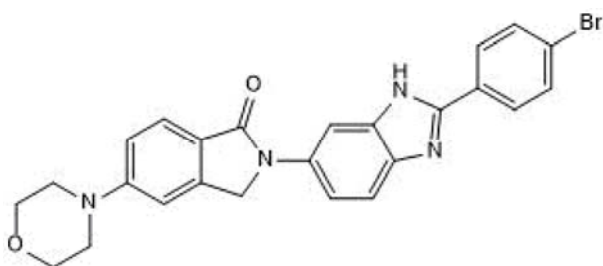
Batch Molecular Formula: C₂₅H₂₁BrN₄O₂

Batch Molecular Weight: 489.37

Physical Appearance: Off White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Miki *et al* (2021) ERR γ enhances cardiac maturation with T-tubule formation in human iPSC-derived cardiomyocytes. *Nat. Commun.* **12** 3596. PMID: 34155205.

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. Our standard recommendations are:

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.

Licensing Information:

Sold under license from Orizuru Therapeutics

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