

**Product Name:** Yhhu 3792

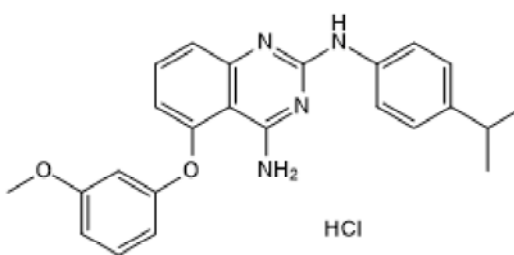
**Catalog No.:** 6599

**Batch No.:** 1

**IUPAC Name:** 5-(3-Methoxyphenoxy)-*N*<sup>2</sup>-[4-(1-methylethyl)phenyl]-2,4-quinazolinediamine hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>O<sub>2</sub>.HCl  
**Batch Molecular Weight:** 436.93  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.97	5.77	12.82
Found	65.89	5.83	12.86

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

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**Description:**

Notch signaling pathway activator; enhances the self-renewal capability of neural stem cells (NSCs) via Notch signaling pathway activation in vitro and in vivo. Promotes the expression of Notch target genes, Hes3 and Hes5. Expands the NSCs pool and promotes endogenous neurogenesis in the hippocampal dentate gyrus (DG) after chronic administration in mice. Increases the spatial and episodic memory in mice.

**Physical and Chemical Properties:**

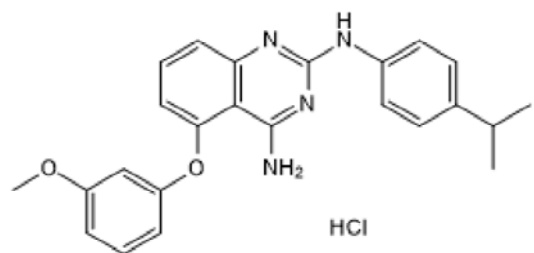
Batch Molecular Formula: C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 436.93

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**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. 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.

**References:**

Lu (2018) A novel 2-phenylamino-quinazoline-based compound expands the neural stem cell pool and promotes the hippocampal neurogenesis and the cognitive ability of adult mice *Stem Cells* **36** 1273. PMID: 29726088.

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