

Certificate of Analysis

Product Name: IP7e

Catalog No.: 5699

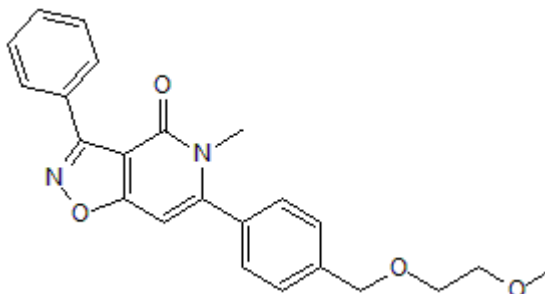
Batch No.: 1

CAS Number: 500164-74-9

IUPAC Name: 6-[4-[(2-Methoxyethoxy)methyl]phenyl]-5-methyl-3-phenyl-isoxazolo[4,5-c]pyridin-4(5H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₃ H ₂₂ N ₂ O ₄
Batch Molecular Weight:	390.43
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 20 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.37 (Ethyl acetate:Petroleum ether [1:1])
HPLC:	Shows 98.7% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	70.75	5.68	7.17
Found	71.07	5.67	7.14

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

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Description:

Potent Nurr1 activator (EC₅₀ = 3.9 nM). Delays onset and reduces severity of symptoms in mice with experimental autoimmune encephalomyelitis (EAE). Also suppresses NF-κB signaling. Brain penetrant and orally bioavailable.

Physical and Chemical Properties:

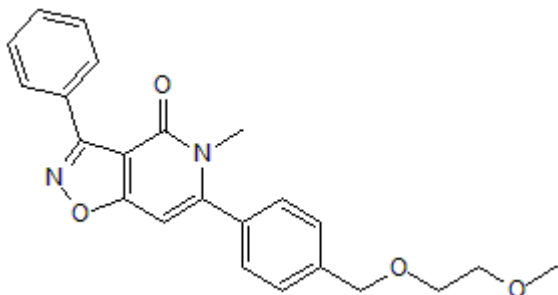
Batch Molecular Formula: C₂₃H₂₂N₂O₄

Batch Molecular Weight: 390.43

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM with gentle warming

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:

Montarolo et al (2014) Effects of isoxazolo-pyridinone 7e, a potent activator of the Nurr1 signaling pathway, on experimental autoimmune encephalomyelitis in mice. *PLoS One* **9** e108791. PMID: 25265488.

Hintermann et al (2007) Identification of a series of highly potent activators of the Nurr1 signaling pathway. *Bioorg.Med.Chem.Lett.* **17** 193. PMID: 17035009.

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