

Print Date: Mar 30th 2022

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Product Name: L-690,330 Catalog No.: 0681 Batch No.: 3

Certificate of Analysis

CAS Number: 142523-38-4

IUPAC Name: [1-(4-Hydroxyphenoxy)ethylidene]bisphosphonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_8H_{12}O_8P_2.1^3/4H_2O$

Batch Molecular Weight:329.65Physical Appearance:White solidSolubility:water to 20 mMStorage:Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 29.15 4.74 Found 28.99 4.8

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Product Information

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CAS Number: 142523-38-4

IUPAC Name: [1-(4-Hydroxyphenoxy)ethylidene]bisphosphonic acid

Description:

L-690,330 is a potent inhibitor of inositol monophophatase; stable to hydrolysis. Induces autophagy in COS-7 cells independently of mTOR inhibition.

Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₂O₈P₂.1³/₄H₂O

Batch Molecular Weight: 329.65 Physical Appearance: White solid

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

water to 20 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 with the permission of Merck Sharp and Dohme Ltd.

References:

Fleming *et al* (2011) Chemical modulators of autophagy as biological probes and potential therapeutics. Nat.Chem.Biol. **7** 9. PMID: 21164513.

Sarkar et al (2005) Li induces autophagy by inhibiting inositol monophosphatase. J.Cell.Biol. 170 1101. PMID: 16186256.

Atack *et al* (1994) Effects of L-690,488, a pro-drug of the bisphosphonate inisotol monophosphatase inhibitor L-690,330, on phosphatidylinisotol cycle markers. J.Pharmacol.Exp.Ther. **270** 70. PMID: 8035344.

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