

Product Name: T 5224

Catalog No.: 7317

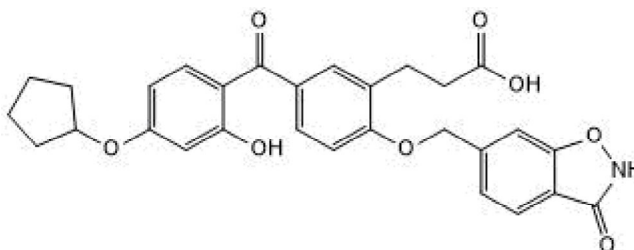
Batch No.: 1

CAS Number: 530141-72-1

IUPAC Name: 5-[4-(Cyclopentyloxy)-2-hydroxybenzoyl]-2-[(2,3-dihydro-3-oxo-1,2-benzisoxazol-6-yl)methoxy]benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₉ H ₂₇ NO ₈
Batch Molecular Weight:	517.53
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	67.3	5.26	2.71
Found	67	5.28	2.58

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

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Description:

T 5224 is a selective inhibitor of c-Fos/activator protein (AP)-1. It inhibits the DNA-binding and transactivation activities of AP-1, without affecting the activity of ATF2, C/EBP α , NF- κ B/p65, MyoD, and Sp1 in vitro. Administration of T 5224 in mouse model prevents type II collagen-induced arthritis by reducing inflammatory cytokines (including interleukin 1 β) and matrix-degrading MMPs.

Physical and Chemical Properties:

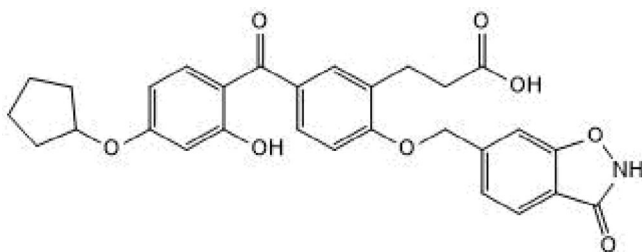
Batch Molecular Formula: C₂₉H₂₇NO₈

Batch Molecular Weight: 517.53

Physical Appearance: White solid

Minimum Purity: \geq 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. *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.

References:

Aikawa et al (2008) Treatment of arthritis with a selective inhibitor of c-Fos/activator protein-1. *Nat.Biotechnol* **26** 817. PMID: 18587386.

Tsuchida et al (2006) Discovery of nonpeptidic small-molecule AP-1 inhibitors: lead hopping based on a three-dimensional pharmacophore model. *J.Med.Chem* **49** 80. PMID: 16392794.

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