

Certificate of Analysis

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Product Name: T2AA

Catalog No.: 4723

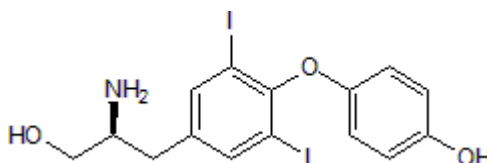
Batch No.: 1

CAS Number: 1380782-27-3

IUPAC Name: (β S)- β -Amino-4-(4-hydroxyphenoxy)-3,5-diiodobenzenpropanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₅ H ₁₅ I ₂ NO ₃
Batch Molecular Weight:	511.09
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM 1eq. HCl to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.67 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = -15.3 (Concentration = 1, Solvent = Methanol)
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	35.35	2.96	2.74
Found	35.63	3.02	2.68

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

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Description:

Proliferating cell nuclear antigen (PCNA) inhibitor; inhibits PCNA/PIP-box peptide interaction (IC_{50} ~1 μ M). Causes DNA replication stress by stalling DNA replication forks. Inhibits PCNA interaction with DNA polymerase δ and arrests cell growth in S-phase. Suppresses cancer cell growth.

Physical and Chemical Properties:

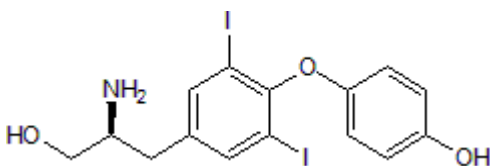
Batch Molecular Formula: $C_{15}H_{15}I_2NO_3$

Batch Molecular Weight: 511.09

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 10 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:

Punchihewa et al (2012) Identification of small molecule proliferating cell nuclear antigen (PCNA) inhibitor that disrupts interactions with PIP-box proteins and inhibits DNA replication. *J.Biol.Chem.* **287** 14289. PMID: 22383522.

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