

Product Name: TC HSD 21

Catalog No.: 4575

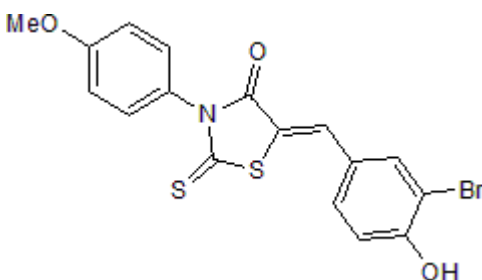
Batch No.: 1

CAS Number: 330203-01-5

IUPAC Name: 5-[(3-Bromo-4-hydroxyphenyl)methylene]-3-(4-methoxyphenyl)-2-thioxo-4-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂BrNO₃S₂
Batch Molecular Weight: 422.32
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.35	2.86	3.31
Found	48.49	2.81	3.49

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

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Description:

Potent 17 β -hydroxysteroid dehydrogenase type 3 (17 β -HSD3) inhibitor (IC₅₀ values are 6 and 40 nM at human and mouse 17 β -HSD3 respectively). Displays no activity at 17 β -HSD1, 17 β -HSD2, ER α , androgen receptors or glucocorticoid receptors.

Physical and Chemical Properties:

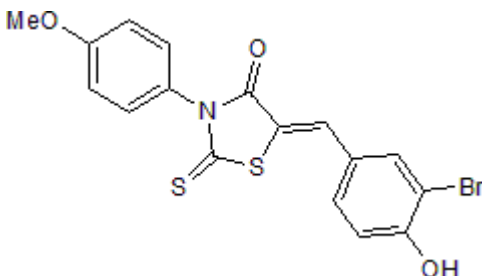
Batch Molecular Formula: C₁₇H₁₂BrNO₃S₂

Batch Molecular Weight: 422.32

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Harada *et al* (2012) Identification of oxazolidinediones and thiazolidinediones as potent 17 β -hydroxysteroid dehydrogenase type 3 inhibitors. *Bioorg.Med.Chem.Lett.* **22** 504. PMID: 22137341.

Storage: Store at +4°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.

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