

Product Name: Biotinyl Tyramide

Catalog No.: 6241

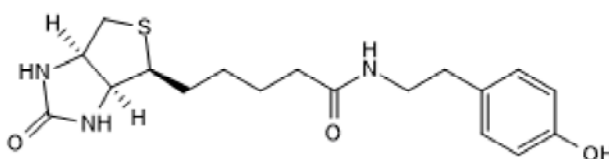
Batch No.: 2

CAS Number: 41994-02-9

IUPAC Name: (3a*S*,4*S*,6a*R*)-Hexahydro-*N*-[2-(4-hydroxyphenyl)ethyl]-2-oxo-1*H*-thieno[3,4-*d*]imidazole-4-pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₅N₃O₃S.
Batch Molecular Weight: 363.47
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.48	6.93	11.56
Found	59.51	7.08	11.41

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

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Description:

Biotinyl Tyramide is a reagent widely used for signal amplification in IHC and fluorescent in situ hybridization (ISH). HRP catalyzes localized deposition of multiple biotinyl tyramide molecules (catalyzed reporter deposition, CARD), which can be detected using a labeled streptavidin conjugate. The localization of deposition around HRP leads to good resolution. Suitable for either fluorescence or chromogenic detection.

Physical and Chemical Properties:

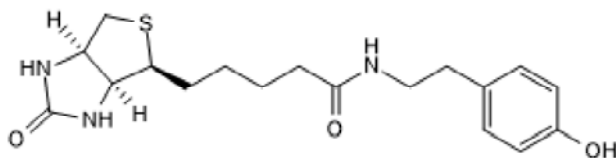
Batch Molecular Formula: C₁₈H₂₅N₃O₃S.

Batch Molecular Weight: 363.47

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

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:

McKay et al (1997) Amplification of fluorescent *in situ* hybridisation signals in formalin fixed paraffin wax embedded sections of colon tumour using biotinylated tyramide. *Mol.Pathol.* **50** 322. PMID: 9536283.

Bobrow et al (1989) Catalyzed reporter deposition, a novel method of signal amplification. Application to immunoassays. *J.Immunol.Methods* **125** 279. PMID: 2558138.

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