

Certificate of Analysis

www.tocris.com

Product Name: Biotin BromoCatch™ Ligand

Catalog No.: 8939

Batch No.: 1

IUPAC Name: *N*-((17*R*)-17-((6*S*)-4-(4-Acrylamidophenyl)-2,3,9-trimethyl-6*H*-thieno[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepin-6-yl)-16-oxo-3,6,9,12-tetraoxa-15-azanonadecyl)-5-((3*aS*,4*S*,6*aR*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

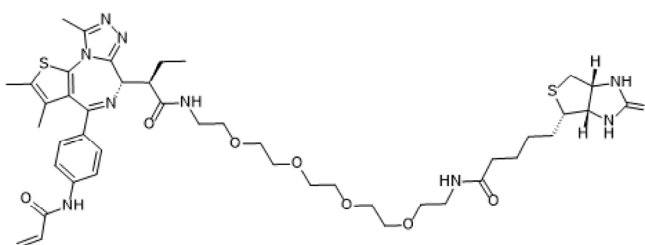
Batch Molecular Formula: C₄₄H₆₁N₉O₈S₂

Batch Molecular Weight: 908.15

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: consistent with structure

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

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Description:

Biotin BromoCatch™ Ligand is a covalent probe designed for the selective labeling and enrichment of proteins tagged with the BromoCatch™ self-labeling tag. Based on a para-acrylamide-functionalized bump-JQ1 scaffold, the BromoCatch™ ligand, enables irreversible and highly specific covalent attachment to the engineered cysteine residue in the BromoCatch-tagged protein. The appended biotin handle allows for efficient affinity-based detection, pull-down, and isolation of tagged proteins from complex mixtures such as cell lysates. This probe demonstrates exceptional target selectivity, confirmed via intact protein mass spectrometry. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

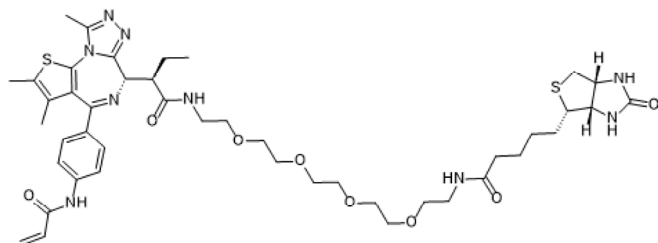
Batch Molecular Formula: C₄₄H₆₁N₉O₈S₂

Batch Molecular Weight: 908.15

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Rodriguez-Rios *et al* (2025) BromoCatch: a self-labelling tag platform for protein analysis and live cell imaging. *biorxiv*.

Storage: Store at -20°C

Solubility & Usage Info:

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.

Licensing Information:

Sold under exclusive licence from the University of Dundee

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