

Certificate of Analysis

www.tocris.com

Product Name: BromoCatch™ Control Ligand

Catalog No.: 7300

Batch No.: 1

CAS Number: 2421153-75-3

IUPAC Name: Methyl (R)-2-((S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)butanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃ClN₄O₂S.½H₂O

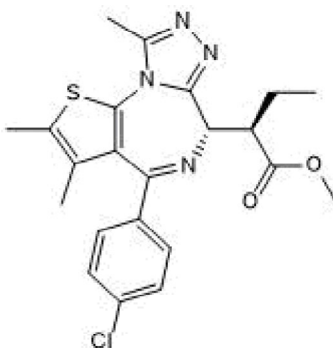
Batch Molecular Weight: 451.97

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	58.46	5.35	12.4
Found	58.36	5.3	11.92

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: BromoCatch™ Control Ligand

Catalog No.: 7300

Batch No.: 1

CAS Number: 2421153-75-3

IUPAC Name: Methyl (R)-2-((S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)butanoate

Description:

BromoCatch™ Control Ligand is a competitor ligand for use with BromoCatch™, a Self-Labeling Proteins (SLPs) tag platform. It is a non-covalent ligand that competes for BromoCatch™ probe binding sites to validate the specificity of the BromoCatch™ system in your experiments, ensuring that the interactions observed are specific to the target probe. It is particularly useful in experimental settings like fluorescence microscopy and biochemical assays where confirmation of probe specificity is crucial. Please refer to this protocol for further information on how to use this product. BromoCatch™ is a trademark of Bi... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

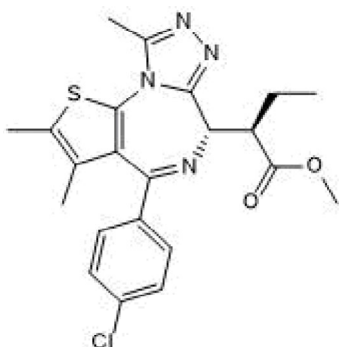
Batch Molecular Formula: C₂₂H₂₃ClN₄O₂S.½H₂O

Batch Molecular Weight: 451.97

Physical Appearance: Yellow solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

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.

References:

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

Runcie *et al* (2018) Optimization of a "bump-and-hole" approach to allele-selective BET bromodomain inhibition. *Chem.Sci.* **9** 2452. PMID: 29732121.

Baud *et al* (2014) A bump-and-hole approach to engineer controlled selectivity of BET bromodomain chemical probes. *Science* **346** 638. PMID: 25323695.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956