bio-techne
TOCRIS

Print Date: Sep 5th 2025

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-6*H*-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: $C_{22}H_{23}ClN_4O_2S.½H_2O$

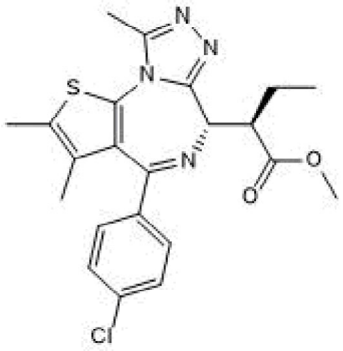
Batch Molecular Weight: 451.97

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

^{1}H 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

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Description:

BromoCatch™ Control Ligand is a control ligand for use with BromoCatch™, a Self-Labeling Proteins (SLPs) tag platform. It is a non-covalent ligand that competes for BromoCatch™ probe binding site. Please refer to this protocol for further information on how to use this product. BromoCatch is a trademark of Bio-Techne Corp.

Physical and Chemical Properties:

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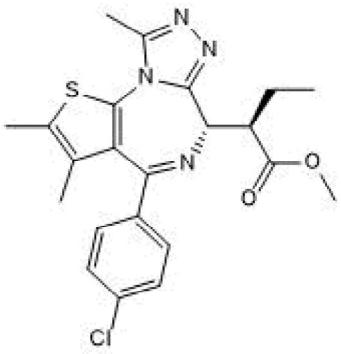
Physical Appearance: Yellow solid

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. www.biorxiv.org/content/10.1101/2025.04.07.647551v1.

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.