biotechne[®] TOCRIS

IUPAC Name:

Certificate of Analysis

www.tocris.com

Product Name: CG 428

Catalog No.: 7425 Batch No.: 1

CAS Number: 2412055-93-5

2-(2,6-Dioxo-3-piperidinyl)-4-[[2-[3-[4-[6-[6-[(2R)-2-(3-fluorophenyl)-1-pyrrolidinyl]imidazo[1,2-b]pyridazin-3-yl]-2-pyridinyl]-1-piperazinyl]-3-oxopropoxy]ethyl]amino]-1*H*-isoindole-1,3(2*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₄₃H₄₃FN₁₀O₆.¾H₂O 828.39 Bright yellow solid DMSO to 100 mM Store at -20°C

2. ANALYTICAL DATA

HPLC: Chiral HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 97.5% purity Shows 99.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

		, ,	Ŭ
Theoretical	62.35	5.41	16.91
Found	62.14	5.41	16.88

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

biotechne[®] TOCRIS

www.tocris.com

Product Name: CG 428

Catalog No.: 7425

1

CAS Number: 2412055-93-5

IUPAC Name:

2-(2,6-Dioxo-3-piperidinyl)-4-[[2-[3-[4-[6-[6-[(2R)-2-(3-fluorophenyl)-1-pyrrolidinyl]imidazo[1,2-b]pyridazin-3-yl]-2-pyridinyl]-1-piperazinyl]-3-oxopropoxy]ethyl]amino]-1H-isoindole-1,3(2H)-dione

Description:

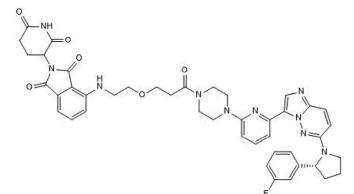
CG 428 is a potent tropomyosin receptor kinase (TRK) Degrader (uSMITE[™]) (DC₅₀ = 0.36 nM). CG 428 comprises an analog of the pan-TRK inhibitor GNF-8625 joined by a linker to the cereblon E3 ligase ligand pomalidomide (Cat. No. 6302). CG 428 shows selectivity for TRKA over TRKC and TRKB (K_d values = 1nM, 4.2 nM and 28 nM, respectively). Inhibits growth of KM12 colon cancer cells (IC₅₀ =2.9 nM) and is bioavailable. Negative control CG 428-Neg (Cat. No. 7426), and TrkB antibodies validated for Simple Western[™] (automated Western) instruments and Western Blot also available: Catalog # AF1494 and AF397. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₃H₄₃FN₁₀O₆.³/₄H₂O Batch Molecular Weight: 828.39 Physical Appearance: Bright yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Chen *et al* (2020) Discovery of first-in-class potent and selective tropomyosin receptor kinase degraders. J.Med.Chem. **63** 14562. PMID: 33058680.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

Storage: Store at -20°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. *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 license from Cullgen