

**Product Name:** CG 858

**Catalog No.:** 7427

**Batch No.:** 1

CAS Number: 2417296-82-1

IUPAC Name: *N*-[[4-[3-[2,6-Difluoro-3-[(propylsulfonyl)amino]benzoyl]-1*H*-pyrrolo[2,3-*b*]pyridin-5-yl]phenyl]methyl]-5-[[2-(2,6-dioxo-3-piperidiny)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-5-yl]amino]pentanamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>42</sub>H<sub>39</sub>F<sub>2</sub>N<sub>7</sub>O<sub>8</sub>S · 1½H<sub>2</sub>O

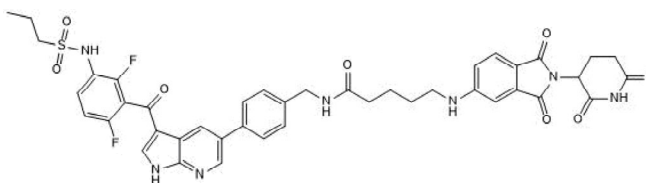
**Batch Molecular Weight:** 866.89

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.19	4.88	11.31
Found	58.04	4.66	11.29

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:** CG 858

**Catalog No.:** 7427

**1**

CAS Number: 2417296-82-1

IUPAC Name: *N*-[[4-[3-[2,6-Difluoro-3-[(propylsulfonyl)amino]benzoyl]-1*H*-pyrrolo[2,3-*b*]pyridin-5-yl]phenyl]methyl]-5-[[2-(2,6-dioxo-3-piperidiny)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-5-yl]amino]pentanamide

**Description:**

CG 858 is a selective BRAF-V600E protein Degradator (uSMITE™). CG 858 comprises the BRAF kinase inhibitor vemurafenib linked to the E3 ligase ligand Thalidomide (Cat. No. 0652). CG 858 dose-dependently degrades BRAF-V600E but not wild type BRAF, and reduces cell viability and colony formation in HT-29 and A375 cells (DC<sub>50</sub> values are 124 nM and 500 nM, respectively). Exhibits 88% degradation at 500 nM. CG 858 also impairs melanoma cell growth. CG 858 negative control (Cat. No. 7428) and B-Raf antibody validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # AF3424. Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

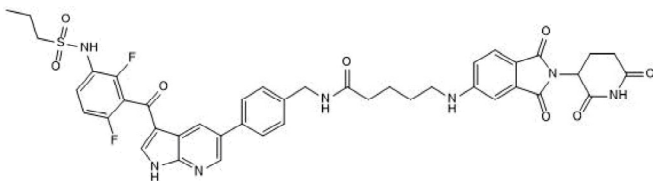
Batch Molecular Formula: C<sub>42</sub>H<sub>39</sub>F<sub>2</sub>N<sub>7</sub>O<sub>8</sub>S.1½H<sub>2</sub>O

Batch Molecular Weight: 866.89

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

Han *et al* (2020) Discovery of selective small molecule degraders of BRAF-V600E. *J.Med.Chem.* **63** 4069. PMID: 32223235.

**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.

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