

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: C₄₂H₃₉F₂N₇O₈S · 1½H₂O

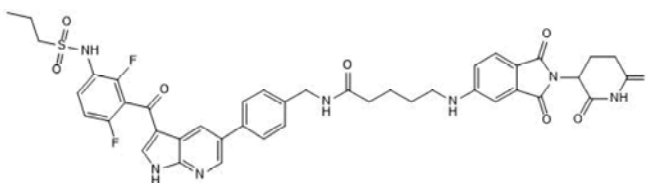
Batch Molecular Weight: 866.89

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

¹H 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

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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 (DC₅₀ 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) also available. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

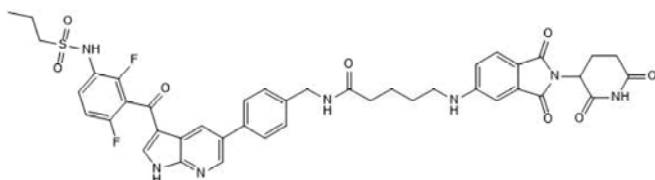
Batch Molecular Formula: C₄₂H₃₉F₂N₇O₈S.1½H₂O

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. Our standard recommendations are:

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.

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