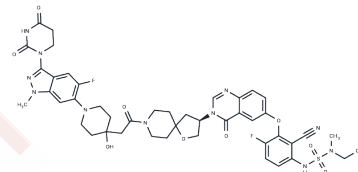


Tagarafdeg

Chemical Properties

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 2882165-79-7 |
| Formula: | C45H49F2N11O9S |
| Molecular Weight: | 958 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Tagarafdeg (CFT1946) is an orally available PROTAC degrader targeting mutant BRAF, capable of degrading BRAF V600E (Class I), G469A (Class II), G466V (type III) mutations, and the p61-BRAF V600E splice variant. It exhibits favourable selectivity within the proteome, including for wild-type BRAF and CRAF, and inhibits tumour cell proliferation. |
| Targets(IC50) | Raf,PROTACs |
| In vitro | In A375 cells, Tagarafdeg (CFT1946) effectively degraded BRAFV600E (Emax = 26%; DC50 = 14 nM, 24 hours) and inhibited ERK phosphorylation (IC50 = 11 nM, 24 hours) and cell growth (GI50 = 94 nM, 96 hours), while having no effect on the mutant KRAS-driven cell line HCT116. [2] |
| In vivo | METHODS: Tagarafdeg (10 mg/kg, orally, twice daily) was used to treat A375 xenograft mice, and tumor growth in the mice was observed. RESULTS: Tagarafdeg resulted in deeper tumor regression. [2] |

Solubility Information

| | |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 80 mg/mL (83.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------------|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.0438 mL | 5.2192 mL | 10.4384 mL |
| 5 mM | 0.2088 mL | 1.0438 mL | 2.0877 mL |
| 10 mM | 0.1044 mL | 0.5219 mL | 1.0438 mL |
| 50 mM | 0.0209 mL | 0.1044 mL | 0.2088 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yanke Liang. The Discovery and Characterization of CFT1946: A Potent, Selective, and Orally Bioavailable Degradator of Mutant BRAF for the Treatment of BRAF-driven Cancers. ANNUAL MEETING, American Association for Cancer Research, 2023.

Sowa M E, et al. Preclinical evaluation of CFT1946 as a selective degrader of mutant BRAF for the treatment of BRAF driven cancers[J]. Cancer Research, 2022, 82(12_Supplement): 2158-2158.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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