# Thalidomide 4-fluoride

**Cat. No.:** HY-41547

**CAS No.:** 835616-60-9

**Molecular Formula:** $C_{13}H_9FN_2O_4$

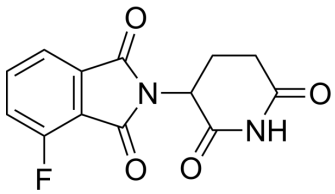
**Molecular Weight:** 276.22

**Target:** Ligands for E3 Ligase

**Pathway:** PROTAC

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 2 years |
| | -20°C | 1 year |




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 300 mg/mL (1086.09 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 3.6203 mL | 18.1015 mL | 36.2030 mL |
| 5 mM | 0.7241 mL | 3.6203 mL | 7.2406 mL |
| 10 mM | 0.3620 mL | 1.8102 mL | 3.6203 mL |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

Thalidomide 4-fluoride (Cereblon ligand 4) is the Thalidomide-based Cereblon ligand used in the recruitment of CRBN protein. Thalidomide 4-fluoride (Cereblon ligand 4) can be connected to the ligand for IRAK4 protein by a linker to form PROTAC IRAK4 degrader-1 (HY-129966)[1].

**$IC_{50}$ & Target**

Cereblon

## REFERENCES

[1]. Nello Mainolfi, et al. Irak degraders and uses thereof. US20190192668A1.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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