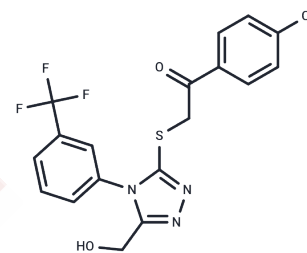


## Phytoene desaturase-IN-1

## Chemical Properties

CAS No. :	2765793-54-0
Formula:	C <sub>18</sub> H <sub>13</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	427.83
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Phytoene desaturase-IN-1 is a PDS inhibitor targeting carotenoid biosynthesis. It blocks the synthesis of photoprotective pigments, leading to plant bleaching, used for agricultural chemistry and photosynthesis research.
Targets(IC50)	Others
In vitro	Phytoene desaturase-IN-1 reduces PDS mRNA levels by 30% after 14 days, blocking phytoene dehydrogenation [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (233.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3374 mL	11.6869 mL	23.3738 mL
5 mM	0.4675 mL	2.3374 mL	4.6748 mL
10 mM	0.2337 mL	1.1687 mL	2.3374 mL
50 mM	0.0467 mL	0.2337 mL	0.4675 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

Berezki R, Gyurcsányi R E, Ágai B, et al. Synthesis and characterization of covalently immobilized bis-crown ether based potassium ionophore[J]. Analyst, 2005, 130(1): 63-70.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481