

EN460

## Chemical Properties

CAS No. : 496807-64-8

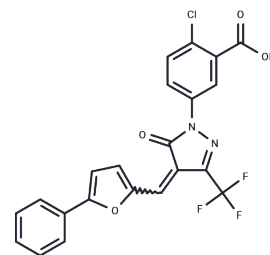
Formula: C<sub>22</sub>H<sub>12</sub>ClF<sub>3</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 460.79

Store at low temperature

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	EN460 is a selective inhibitor of Endoplasmic Reticulum Oxidase 1 (ERO1 $\alpha$ ), inhibiting ERO1L-mediated gene silencing and cell migration, and PDAC invasion.
Targets(IC50)	Others
In vitro	EN460 selectively interacts with the reducing active form of ERO1 $\alpha$ and prevents its reoxidation, IC <sub>50</sub> = 1.9 $\mu$ M. [1] EN460 inhibited the proliferation of PDAC cells in vitro. [2]
In vivo	In subcutaneous xenograft models, EN460 inhibited ERO1L, leading to a significant delay in tumor growth. [2]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 8 mg/mL (17.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.17 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1702 mL	10.8509 mL	21.7019 mL
5 mM	0.434 mL	2.1702 mL	4.3404 mL
10 mM	0.217 mL	1.0851 mL	2.1702 mL
50 mM	0.0434 mL	0.217 mL	0.434 mL

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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

Blais JD, et al. A small molecule inhibitor of endoplasmic reticulum oxidation 1 (ERO1) with selectively reversible thiol reactivity. *J Biol Chem.* 2010 Jul 2;285(27):20993-1003.

Zhang J, et al. Endoplasmic Reticulum stress-dependent expression of ERO1L promotes aerobic glycolysis in Pancreatic Cancer. *Theranostics.* 2020 Jul 9;10(18):8400-8414.

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