

E260

## Chemical Properties

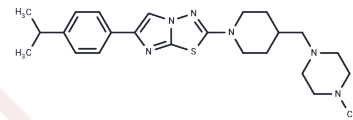
CAS No. : 1241537-79-0

Formula: C<sub>24</sub>H<sub>34</sub>N<sub>6</sub>S

Molecular Weight: 438.63

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	E260 (Fer and FerT inhibitor) is a Fer/FerT kinase inhibitor
Targets(IC50)	Fer/FerT kinase
In vitro	Fer and FerT inhibitor, which selectively evokes metabolic stress in cancer cells by imposing mitochondrial dysfunction and deformation, and onset of energy-consuming autophagy which decreases the cellular ATP level. When applied to metastatic grade IV SW620 CC cells, which are serum starved for 16 h and treated with 3 mM H <sub>2</sub> O <sub>2</sub> to activate Fer, Fer and FerT inhibitor exhibits inhibitory effects on the Fer-kinase activity as is reflected by suppressed auto-phosphorylation activity of the enzyme.
In vivo	Fer/FerT kinase inhibitor suppresses xenografts progression in vivo. The pharmacokinetic (PK) profile of Fer/FerT kinase inhibitor is determined in mice. Fer/FerT kinase inhibitor exhibits a T <sub>1/2</sub> of 175 min in the blood, and a volume of distribution of 4244 mL/kg suggesting an efficient distribution of the compound in the animal tissues. To evaluate the efficacy of Fer/FerT kinase inhibitor on tumor growth, SW620 cells are subcutaneously introduced into immuno-compromised "Nude" mice. Administration of Fer/FerT kinase inhibitor leads to a significant attenuation of tumor progression throughout the experiment, and to a 10-fold decrease in average tumor volume after 22 days of treatment. To further demonstrate the anti-cancer activity of Fer/FerT kinase inhibitor in vivo, mice bearing SW48 cells derived xenografts are treated with Fer/FerT kinase inhibitor and the tumor progression profiles are determined. Mice treated with Fer/FerT kinase inhibitor demonstrate a 5-6-fold attenuation in tumors progression when compared to the control treated group

## Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2798 mL	11.3991 mL	22.7983 mL
5 mM	0.456 mL	2.2798 mL	4.5597 mL
10 mM	0.228 mL	1.1399 mL	2.2798 mL
50 mM	0.0456 mL	0.228 mL	0.456 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.

### Reference

Elkis Y, et al. A novel Fer/FerT targeting compound selectively evokes metabolic stress and necrotic death in malignant cells. *Nat Commun.* 2017 Oct 16;8(1):940.

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