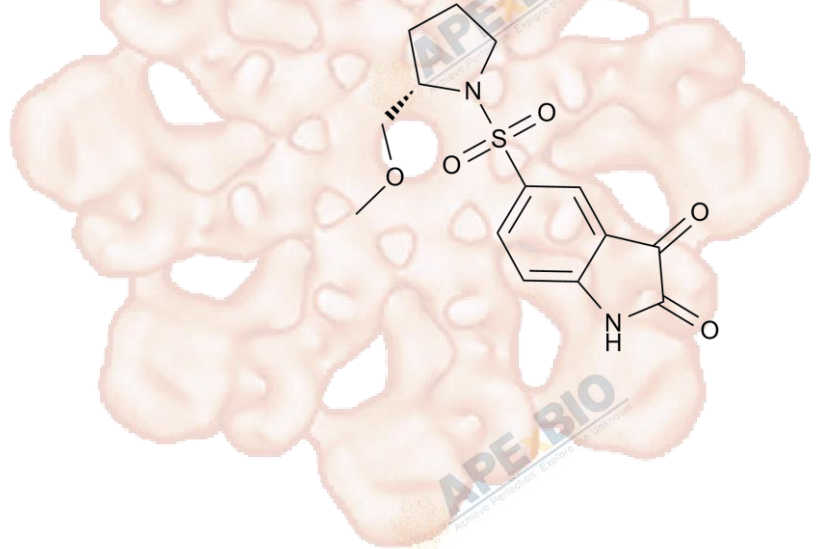


# Product Data Sheet

## Caspase-3/7 Inhibitor I

<b>Cat. No.:</b>	A1925
<b>CAS No.:</b>	220509-74-0
<b>Formula:</b>	C <sub>14</sub> H <sub>16</sub> N <sub>2</sub> O <sub>5</sub> S
<b>M.Wt:</b>	324.4
<b>Synonyms:</b>	
<b>Target:</b>	Apoptosis
<b>Pathway:</b>	Caspase
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥16.2 mg/mL in DMSO; ≥2.17 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	3.0826 mL	15.4131 mL	30.8261 mL
	<b>5 mM</b>	0.6165 mL	3.0826 mL	6.1652 mL
	<b>10 mM</b>	0.3083 mL	1.5413 mL	3.0826 mL

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

### Biological Activity

Shortsummary

Caspase-3/7 inhibitor

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

Cell Line:	Human Jurkat T cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	50 μM

	Applications:	Cells were treated with camptothecin to induce cell death, and the ability of the compound to inhibit cell death was assessed by FACS analysis. A good correlation exists between relative cell-based activities of the compound with its in vitro isolated caspase 3 or 7 inhibition activities. The compound exhibited 54% inhibition of apoptosis at 50 $\mu$ M and 22% at 10 $\mu$ M.
In Vivo	<b>Animal experiment</b>	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

1. DXie L, Dai H, et al. "MARCH1 encourages tumour progression of hepatocellular carcinoma via regulation of PI3K-AKT- $\beta$ -catenin pathways." J Cell Mol Med. 2019 May;23(5):3386-3401.PMID:30793486
2. Dang Q, Song W, Xu D, et al. Kaempferol suppresses bladder cancer tumor growth by inhibiting cell proliferation and inducing apoptosis[J]. Molecular carcinogenesis, 2014.

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## References

[1] Lee D, Long S A, Murray J H, et al. Potent and selective nonpeptide inhibitors of caspases 3 and 7. Journal of medicinal chemistry, 2001, 44(12): 2015-2026.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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## APEx BIO Technology

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