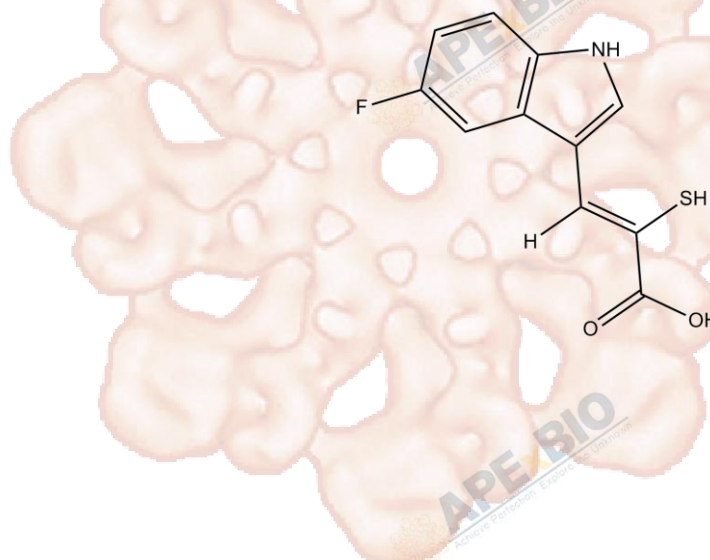


# Product Data Sheet

## PD 151746

<b>Cat. No.:</b>	B4791
<b>CAS No.:</b>	179461-52-0
<b>Formula:</b>	C <sub>11</sub> H <sub>8</sub> FNO <sub>2</sub> S
<b>M.Wt:</b>	237.25
<b>Synonyms:</b>	
<b>Target:</b>	
<b>Pathway:</b>	
<b>Storage:</b>	Desiccate at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥11.6 mg/mL in DMSO; ≥12.78 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		<b>1 mM</b>	4.2150 mL	21.0748 mL	42.1496 mL
		<b>5 mM</b>	0.8430 mL	4.2150 mL	8.4299 mL
		<b>10 mM</b>	0.4215 mL	2.1075 mL	4.2150 mL

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

### Biological Activity

Shortsummary

calpain inhibitor, cell-permeable

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	Cerebellar granule cells
Preparation method:	The solubility of this compound in DMSO is > 11.6 mg/mL. 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:	20 or 40 μM; 24 hrs

	Applications:	In cerebellar granule cells, pre-treatment with 20 or 40 $\mu\text{M}$ PD 151746 for 24 hrs inhibited calpain and thus, protected neurons against the effect of serum/potassium (S/K) withdrawal, restoring the number of cell survival. Moreover, PD 151746 at the dose of 40 $\mu\text{M}$ inhibited the increase of MEF2 phosphorylation and cdk5/p25 formation, as well as inhibited caspase-3 activity.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Verdaguer E, Alvira D, Jiménez A, et al. Inhibition of the cdk5/MEF2 pathway is involved in the antiapoptotic properties of calpain inhibitors in cerebellar neurons. Br J Pharmacol, 2005, 145(8): 1103-1011.

## 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. Shortterm 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.

**APEX BIO Technology**

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