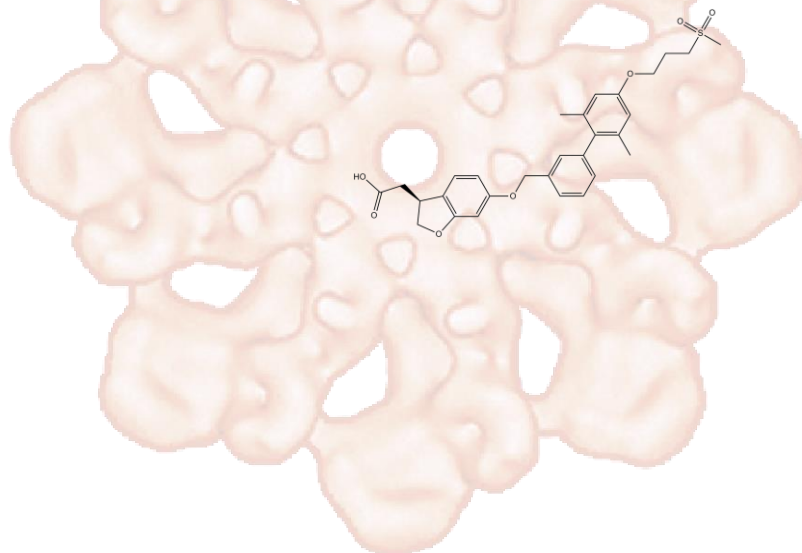


# Product Data Sheet

## TAK-875

<b>Cat. No.:</b>	A8339
<b>CAS No.:</b>	1000413-72-8
<b>Formula:</b>	C <sub>29</sub> H <sub>32</sub> O <sub>7</sub> S
<b>M.Wt:</b>	524.64
<b>Synonyms:</b>	TAK 875;TAK875
<b>Target:</b>	GPCR/G protein
<b>Pathway:</b>	Free Fatty Acid Receptors
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥26.25mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
		1 mM	1.9061 mL	9.5303 mL	19.0607 mL
	5 mM	0.3812 mL	1.9061 mL	3.8121 mL	
	10 mM	0.1906 mL	0.9530 mL	1.9061 mL	

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

## Biological Activity

Shortsummary

GPR40 agonist

IC<sub>50</sub> & Target

14 nM (EC<sub>50</sub>) (GPR40)

In Vitro

### Cell Viability Assay

Preparation method:

### Animal experiment

In Vivo

Animal models: A rat model of diabetes

Dosage form: 0.3 ~ 3 mg/kg, p.o.

Applications: In a rat model of diabetes, single dose of TAK-875 at 0.3 ~ 3 mg/kg reduced the blood glucose excursion and increased insulin secretion during an oral glucose

	tolerance test.
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

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

## References

[1]. Negoro N, Sasaki S, Mikami S, Ito M, Suzuki M, Tsujihata Y, Ito R, Harada A, Takeuchi K, Suzuki N, Miyazaki J, Santou T, Odani T, Kanzaki N, Funami M, Tanaka T1, Kogame A, Matsunaga S, Yasuma T, Momose Y. Discovery of TAK-875: A Potent, Selective, and Orally Bioavailable GPR40 Agonist. ACS Med Chem Lett. 2010 Jun 18;1(6):290-4.

## 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 APExBIO 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.*

**APExBIO Technology**

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