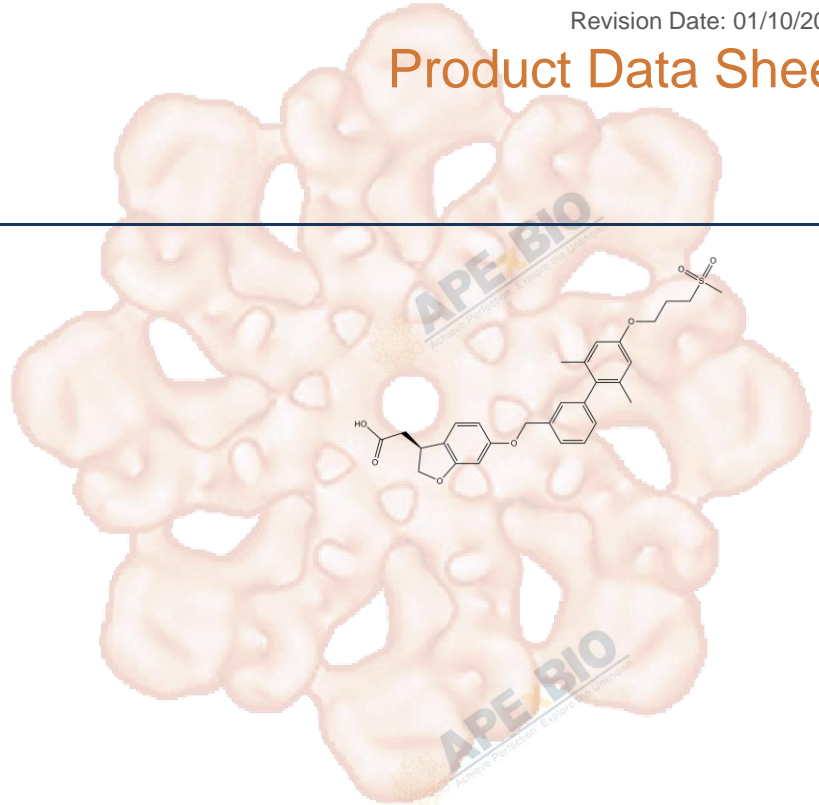


Product Data Sheet

TAK-875

Cat. No.:	A8339
CAS No.:	1000413-72-8
Formula:	C29H32O7S
M.Wt:	524.64
Synonyms:	TAK 875;TAK875
Target:	GPCR/G protein
Pathway:	Free Fatty Acid Receptors
Storage:	Store at -20°C



Solvent & Solubility

≥26.25 mg/mL in DMSO; insoluble in H₂O; ≥4.71 mg/mL in EtOH with gentle warming

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		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

IC₅₀ & Target

14 nM (EC₅₀) (GPR40)

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

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.

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. 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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