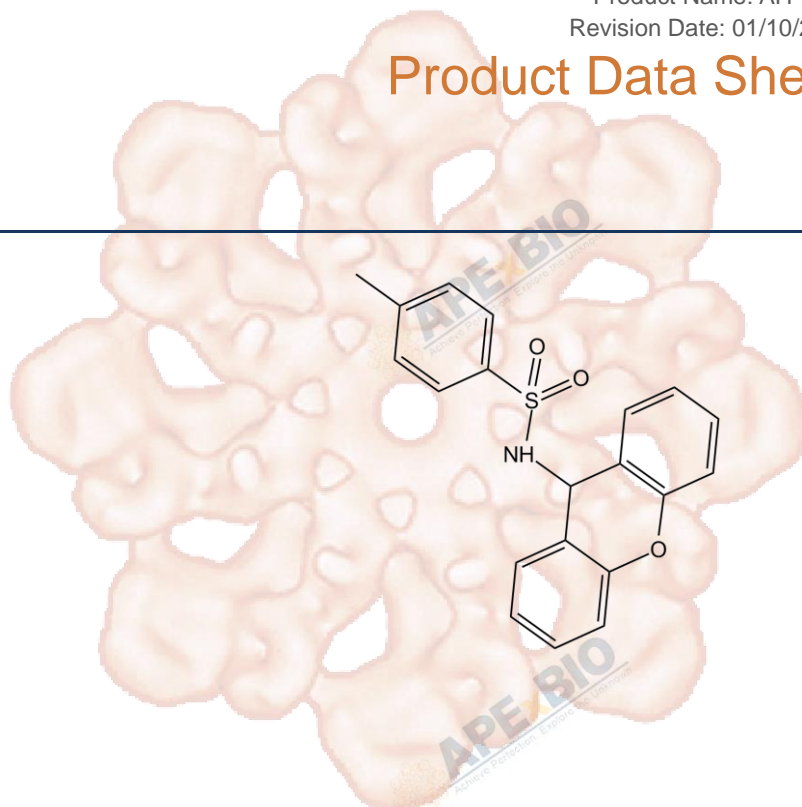


# Product Data Sheet

## AH 7614

<b>Cat. No.:</b>	B7792
<b>CAS No.:</b>	6326-06-3
<b>Formula:</b>	C <sub>20</sub> H <sub>17</sub> NO <sub>3</sub> S
<b>M.Wt:</b>	351.42
<b>Synonyms:</b>	
<b>Target:</b>	GPCR/G protein
<b>Pathway:</b>	Free Fatty Acid Receptors
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥35.1 mg/mL in DMSO; insoluble in EtOH; insoluble in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.8456 mL	14.2280 mL	28.4560 mL
	<b>5 mM</b>	0.5691 mL	2.8456 mL	5.6912 mL
	<b>10 mM</b>	0.2846 mL	1.4228 mL	2.8456 mL

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

### Biological Activity

Shortsummary

FFA4/GPR120 antagonist

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line: Flp-In T-REx 293 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: 10-10 ~10-5 M for 15 minutes

	Applications:	AH-7614 inhibited, in a potent and concentration-dependent manner, the ability of $\omega$ -3 fatty acid aLA to promote $\text{Ca}^{2+}$ mobilization in Flp-In T-REx 293 cells induced to express hFFA4-eYFP. As an antagonist of FFA4, AH-7614 is able to block effects of both the polyunsaturated $\omega$ -6 fatty acid linoleic acid
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Mao XF, Wu HY, et al. "Activation of GPR40 produces mechanical antiallodynia via the spinal glial interleukin-10/ $\beta$ -endorphin pathway." J Neuroinflammation. 2019 Apr 13;16(1):84.PMID:30981281

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## References

[1] Watterson KR, Hansen SVF, Hudson BD, et al. Probe-Dependent Negative Allosteric Modulators of the Long-Chain Free Fatty Acid Receptor FFA4. Mol Pharmacol. 2017 Jun;91(6):630-641.

## 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**

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

