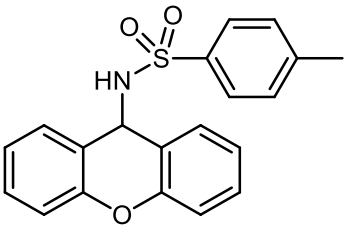
**Catalog # 10-1521**

**AH-7614**

6326-06-3

4-Methyl-N-9H-xanthen-9-yl-benzenesulfonamide

Lot # FBA4192



Selective antagonist at free fatty acid receptor 4 ($FFA_4$), also known as GPR120. $pIC_{50}s$= 7.1 and <4.6 for $FFA_4$ and $FFA_1$ respectively. Inhibits linoleic acid and GSK137647A-induced intracellular calcium increase in U2OS osteosarcoma cells expressing GPR120.[1] Has been used to probe the GPR120-mediated effects of fatty acids on a GnRH-synthesizing neuronal cell model.[2]


1) Sparks *et al*. (2014), *Identification of diarylsulfonamides as agonists of the free fatty acid receptor 4 (FFA4/GPR120)*; Bioorg. Med. Chem. Lett., **24** 3100

2) Tran *et al*. (2016) *Induction of Gnrh mRNA expression by the w-3 polyunsaturated fatty acid palmitate in a GnRH-synthesizing neuronal cell model, mHypoA-GnRH/GFP;* Mol. Cell. Endocrinol., **426** 125


## PHYSICAL DATA

| | |
|---|---|
| Molecular Weight: | 351.43 |
| Molecular Formula: | $C_{20}H_{17}NO_3S$ |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 50 mg/ml), Ethanol (up to 8 mg/ml with warming) |
| Physical Description: | White solid |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month. |

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