## L-798106

| Cat. No.:          | HY-15274                             |           |          |
|--------------------|--------------------------------------|-----------|----------|
| CAS No.:           | 244101-02-8                          | 3         |          |
| Molecular Formula: | C <sub>27</sub> H <sub>22</sub> BrNO | S         |          |
| Molecular Weight:  | 536.44                               |           |          |
| Target:            | Prostagland                          | lin Recep | tor      |
| Pathway:           | GPCR/G Pro                           | tein      |          |
| Storage:           | Powder                               | -20°C     | 3 years  |
|                    | In solvent                           | -80°C     | 6 months |
|                    |                                      | -20°C     | 1 month  |

®

MedChemExpress

### SOLVENT & SOLUBILITY

|       |                    | Solvent Mass<br>Concentration | 1 mg      | 5 mg      | 10 mg      |
|-------|--------------------|-------------------------------|-----------|-----------|------------|
| Prepa | aring<br>Solutions | 1 mM                          | 1.8641 mL | 9.3207 mL | 18.6414 mL |
|       | ootations          | 5 mM                          | 0.3728 mL | 1.8641 mL | 3.7283 mL  |
|       |                    | 10 mM                         | 0.1864 mL | 0.9321 mL | 1.8641 mL  |

| BIOLOGICAL ACTIV          |                                   |   |                                     |                                     |
|---------------------------|-----------------------------------|---|-------------------------------------|-------------------------------------|
| Description               | 1 0,                              | selective prostanoid EP <sub>3</sub> recepto<br>s with K <sub>i</sub> values of 916 nM, >5000               | 0 11 //                             |                                     |
| IC <sub>50</sub> & Target | EP3<br>0.3 nM (IC <sub>50</sub> ) | EP4<br>916 nM (IC <sub>50</sub> )   | EP1<br>>5000 nM (IC <sub>50</sub> ) | EP2<br>>5000 nM (IC <sub>50</sub> ) |
| In Vitro                  | L-798106 (10 µM) inhibits elec    | ctrical field stimulation-induced<br>trical field stimulation-evoked AG<br>onfirmed the accuracy of these m | Ch release <sup>[2]</sup> .         | nly.                                |
|                           | Cell Line:                        | Guinea-pig vas deferens   |                                     |                                     |
|                           | Concentration:                    | 200 nM  |                                     |                                     |
|                           | Incubation Time:                  |   |                                     |                                     |

# Product Data Sheet

Br

|        | Result:   | Showed an apparent pA2 of 7.48±0.25.   |
|--------|---|--|
|        | Cell Viability Assay <sup>[2]</sup>                                   |  |
|        | Cell Line:  | Guinea-pig tracheal smooth muscle  |
|        | Concentration:  | 10 µM  |
|        | Incubation Time:  |  |
|        | Result:   | Attenuated significantly the inhibitory effect of all agents tested (in % inhibition of EFS-<br>induced release: 8-iso-PGE1 from 56.9 to 8.6; 8-iso-PGE2 from 51.6 to 9.2; PGE2 from 61.2<br>to 2.9; sulprostone from 55.9 to 18.8). |
| - Mine |   |  |
| n Vivo | db/db mice <sup>[3]</sup> .   |  |
| n Vivo | db/db mice <sup>[3]</sup> .   | 50 and 100 μg/kg; once daily; 8 w) suppresses systemic insulin resistance and AT inflammation in   |
| n Vivo | db/db mice <sup>[3]</sup> .<br>MCE has not independe                  | 50 and 100 μg/kg; once daily; 8 w) suppresses systemic insulin resistance and AT inflammation in<br>ently confirmed the accuracy of these methods. They are for reference only.  |
| ı Vivo | db/db mice <sup>[3]</sup> .<br>MCE has not independe<br>Animal Model: | 50 and 100 μg/kg; once daily; 8 w) suppresses systemic insulin resistance and AT inflammation ir<br>ently confirmed the accuracy of these methods. They are for reference only.<br>Male db/db mice <sup>[3]</sup>                    |

### REFERENCES

[1]. Deborah L Clarke, et al. E-ring 8-isoprostanes inhibit ACh release from parasympathetic nerves innervating guinea-pig trachea through agonism of prostanoid receptors of the EP3-subtype. Br J Pharmacol. 2004 Feb;141(4):600-9.

[2]. Pei-Chi Chan, et al. Importance of adipocyte cyclooxygenase-2 and prostaglandin E2-prostaglandin E receptor 3 signaling in the development of obesity-induced adipose tissue inflammation and insulin resistance. FASEB J. 2016 Jun;30(6):2282-97.

[3]. Juteau H, et al. Structure-activity relationship of cinnamic acylsulfonamide analogues on the human EP3 prostanoid receptor. Bioorg Med Chem. 2001 Aug;9(8):1977-84.

### Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA