**Supplemental Information**

Adverse outcomes following exposure to perfluorooctanesulfonamide (PFOSA) in larval zebrafish (*Danio rerio*): A neurotoxic and behavioral perspective.

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**Supplemental Figure S1**. The distance moved in each of the light and dark zones (10-minute bins) of 7-day zebrafish larvae exposed to 0.1% DMSO, ERM, 0.1, 1, 10, or 100 µg/L PFOSA in 3 separate experiments. Mean values are depicted by the columns in each dark-light phase (mean ± S.D.) (N=8-12 fish/treatment/experiment).

**Supplemental Tables:**

**Supplemental Table S1.** Primers used for real-time PCR analysis.

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| --- | --- | --- | --- | --- |
| **Gene name** | **Gene Symbol** | **Forward (5' to 3')** | **Reverse (5' to 3')** | **Reference** |
| Acetylcholinesterase | *ache* | GCTAATGAGCAAAAGCATGTGGGC | TATCTGTGATGTTAAGCAGACGAGGCA | NM\_131846.2 |
| Beta-actin | *bactin* |  CGAGCAGGAGATGGGAACC | CAACGGAAACGCTCATTGC | Wang et al. 2018 |
| BCL2 Associated X Apoptosis Regulator | *bax* | gacttgggagctgcacttct | tccgatctgctgcaaacact | Fang et al., 2024 |
| BCL2 Apoptosis Regulator | *bcl2* | AGGAAAATGGAGGTTGGGATG | TGTTAGGTATGAAAACGGGTGGA | Fang et al., 2024 |
| Catalase | *cat* | caaggtctggtcccataaa | tgactggtagttggaggtaa | Fang et al., 2024 |
| Caspase 3 | *caspase3* | CCGCTGCCCATCACTA | ATCCTTTCACGACCATCT | Fang et al., 2024 |
| ELAV Like RNA Binding Protein 3 | *elavl3* | AGACAAGATCACAGGCCAGAGCTT | TGGTCTGCAGTTTGAGACCGTTGA | Yang et al. 2023 |
| Growth Associated Protein 43 | *gap43* | TTAACGGAGGACCAGTGCAA | GTCCTGATCTCCAGCACACG | Dong et al., 2023 |
| Glial Fibrillary Acidic Protein | *gfap* | GGATGCAGCCAATCGTAAT | TTCCAGGTCACAGGTCAG | Dong et al., 2023 |
| Heat Shock Protein 70  | *hsp70* | GAAGACGGCATCTTTGAGGTGA | GGGCCCTCTTGTTCTGACTGAT | Hahn et al., 2014 |
| Mesencephalic Astrocyte Derived Neurotrophic Factor | *manf* | AGATGGAGAGTGTGAAGTCTGTGTG | CAATTGAGTCGCTGTCAAAACTTG | Yang et al., 2023 |
| Myelin Basic Protein | *mbp* | AATCAGCAGGTTCTTCGGAGGAGA | AAGAAATGCACGACAGGGTTGACG | Yang et al., 2023 |
| Nestin | *nestin* | ATGCTGGAGAAACATGCCATGCAG | AGGGTGTTTACTTGGGCCTGAAGA | Jiang et al., 2018 |
| Tumor Protein P53 | *p53* | CCCGGATGGAGATAACTTG | CACAGTTGTCCATTCAGCAC | Fang et al., 2024 |
| Ribosomal 18s | *rps18* |  TCGCTAGTTGGCATCGTTTATG | CGGAGGTTCGAAGACGATCA | McCurley and Callard, 2008 |
| Sonic Hedgehog Signaling Molecule  | *shha* | AGACCGAGACTCCACGACGC | TGCAGTCACTGGTGCGAACG | Guo et al., 2023 |
| Superoxide dismutase 1 | *sod1 (Cu/Zn SOD)* |  CAACACAAACGGCTGCATCA | TTTGCAACACCACTGGCATC | Sarkar et al., 2014 |
| Superoxide dismutase 2 | *sod2 (Mn SOD)* | AGCGTGACTTTGGCTCATTT | ATGAGACCTGTGGTCCCTTG | Sarkar et al., 2014 |
| Synapsin IIa  | *syn2a* | GTACCATGCCAGCATTTC  | TGGTTCTCCACTTTCACCTT | Guo et al., 2023 |
| Tubulin 3 | *tubulin* | AATCACCAATGCTTGCTTCGAGCC | TTCACGTCTTTGGGTACCACGTCA | Wu et al., 2016 |

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