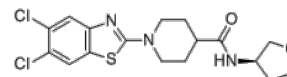


**Product Name** : UT-11  
**Cat. No.** : PC-20720  
**CAS No.** :  
**Molecular Formula** : C<sub>17</sub>H<sub>19</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>S  
**Molecular Weight** : 400.32  
**Target** : PGE synthase  
**Solubility** : 10 mM in DMSO



## Biological Activity

UT-11 is a potent microsomal prostaglandin E synthase-1 (**mPGES-1**) inhibitor, inhibits PGE<sub>2</sub> production from human SK-N-AS and murine BV2 cells induced by LPS with IC<sub>50</sub> of 0.1 and 2.0 μM, respectively. Treatment with UT-11 (10 mg/kg) significantly blunted the upregulation of mPGES-1 induced by LPS in the hippocampus. UT-11 also blunted the upregulation of other inflammatory genes (IL-6, TNF-α, CCL2, CCL3, CCL4) in the hippocampus in mice.

## References

Madison N. Sluter, et al. *ACS Pharmacol Transl Sci.* 2023 Mar 21;6(4):587-599.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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