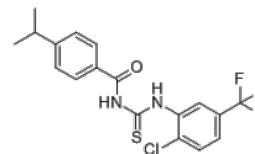


**Product Name** : Mesendogen  
**Cat. No.** : PC-38603  
**CAS No.** : 864716-85-8  
**Molecular Formula** : C<sub>18</sub>H<sub>16</sub>ClF<sub>3</sub>N<sub>2</sub>OS  
**Molecular Weight** : 400.844  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

Mesendogen (Compound 6528694, MEG) is a small molecule inhibitor of **TRPM6** channel, promotes mesoderm and definitive endoderm differentiation of human embryonic stem cells (hESCs) through alteration of magnesium homeostasis. Mesendogen induces nearly homogeneous mesoderm differentiation in combination with the A-BVF condition, enhances mesoderm differentiation of hiPSCs and of variations of mesoderm induction conditions. Mesendogen functions at the onset of mesendoderm differentiation but shows no effect on Nodal and Wnt signaling. MEG functions by inhibiting cellular magnesium uptake.

### References

Yijie Geng, et al. *Heliyon*. 2015 Dec 1;1(4):e00046.

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

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