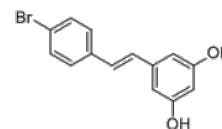


**Product Name** : 4-bromo-Resveratrol  
**Cat. No.** : PC-38474  
**CAS No.** : 1224713-90-9  
**Molecular Formula** : C<sub>14</sub>H<sub>11</sub>BrO<sub>2</sub>  
**Molecular Weight** : 291.1  
**Target** : Sirtuin  
**Solubility** : 10 mM in DMSO



### Biological Activity

4'-bromo-resveratrol (4'-BR) is a dual small molecule inhibitor of **SIRT1** and **SIRT3**, inhibits melanoma cell growth through mitochondrial metabolic reprogramming.

4'-BR completely inhibited both SIRT1 and SIRT3 at 0.2 mM.

4'-BR induces apoptosis via inhibiting extrinsic and intrinsic pathways in human melanoma cells.

4'-BR inhibits migration and causes a G1 phase arrest, inhibits aerobic glycolysis in human melanoma cells.

### References

Nguyen GT, et al. *Chem Biol.* 2013 Nov 21;20(11):1375-85.

George J, et al. *Mol Carcinog.* 2019 Oct;58(10):1876-1885.

Chhabra G, et al. *J Invest Dermatol.* 2022 Apr;142(4):1145-1157.e7.

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

E-mail: tech@probechem.com