Resveratrol is a natural polyphenol, found in grapes and red wine, and is a selective inhibitor of cyclooxygenase-1 (COX-1). It inhibits COX and peroxidase activities of COX-1 with essentially no inhibition of the COX activity of COX-2. It has shown to have antiproliferative activity in cancer stem cells. It has also been used extensively in stem cell studies to enhance self-renewal and multipotency of MSCs. It has been used in many studies on cardiac stem cells, bone marrow derived stem cells and adipose-derived mesenchymal stem cells. It has anti-tumor, antioxidant, anti-platelet, anti-inflammatory and anti-fungal effects.

### TECHNICAL INFORMATION

**Other Names:** €-5-(4-hydroxystyryl) benzene-1, 3-diol

**Chemical Formula:** C_{14}H_{12}O_{8}

**CAS Number:** 501-36-0

**PubChem Substance ID:** 445154

**Molecular Weight:** 228.24

**Purity:** >99%

**Appearance:** White- Off White Solid

**Solubility:** DMSO

**IC_{50} :** 23 μm

### STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

### REFERENCES

