**Product Description**

Raloxifene modulates estrogen receptor (ER) activity. It is a selective estrogen receptor modulator (SERM) that exhibits agonistic (estrogenic) activity in bone cells without stimulating ER activity in breast or uterine tissues (Black et al.). This product is supplied as the hydrochloride salt of the molecule.

**Molecular Name:** Raloxifene (Hydrochloride)

**Alternative Names:** Evista®; Keoxifene; LY156758

**CAS Number:** 82640-04-8

**Chemical Formula:** C_{28}H_{27}NO_{4}S • HCl

**Molecular Weight:** 510.2 g/mol

**Purity:** ≥ 98%

**Chemical Name:** 6-Hydroxy-2-(p-hydroxyphenyl)benzo[b]thien-3-yl-p-(2-piperidinoethoxy)phenyl ketone hydrochloride

**Properties**

**Physical Appearance:** A crystalline solid

**Storage:** Product stable at -20°C as supplied. Protect from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.

**Solubility:**
- Absolute ethanol ≤ 190 µM
- DMSO ≤ 19 mM

For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 196 µL of fresh DMSO. Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application.

Compound has low solubility in aqueous media. For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.
Published Applications

DIFFERENTIATION
- Enhances osteoblast differentiation in mouse bone marrow and human osteoblast cultures (Qu et al.; Viereck et al.).
- Inhibits osteoclast differentiation in primary human bone marrow mononuclear cell cultures (Ramalho et al.).
- Reduced endodermal differentiation (HNF-4α expression) in embryoid bodies derived from human embryonic stem (ES) cells (Kim et al.).

References

Related Small Molecules
For a complete list of small molecules available from STEMCELL Technologies, please visit our website at www.stemcell.com/smallmolecules or contact us at techsupport@stemcell.com.

This product is hazardous. Please refer to the Safety Data Sheet (SDS).