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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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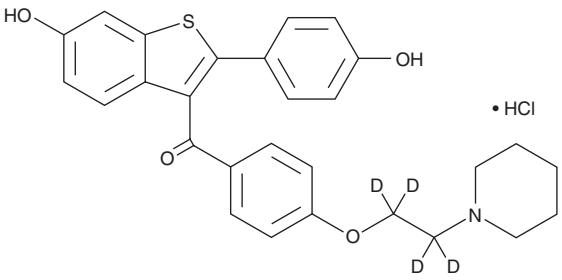
PRODUCT INFORMATION

Raloxifene-d_4 (hydrochloride)

Item No. 22900



CAS Registry No.: 1188263-47-9
Formal Name: (6-hydroxy-2-(4-hydroxyphenyl) benzo[b]thiophen-3-yl) (4-(2-(piperidin-1-yl)ethoxy-1,1,2,2-d_4)phenyl)methanone hydrochloride
MF: $C_{28}H_{23}D_4NO_4S \bullet HCl$
FW: 514.1
Chemical Purity: ≥98% (Raloxifene)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Raloxifene-d_4 (hydrochloride) is intended for use as an internal standard for the quantification of raloxifene (Item No. 10011620) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Raloxifene-d_4 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the raloxifene-d_4 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Raloxifene-d_4 (hydrochloride) is soluble in methanol and DMSO.

Description

Raloxifene is a selective estrogen receptor modulator (SERM) that exhibits estrogenic activity in bone cells without stimulating breast or uterine tissues.[1] Raloxifene guards endothelial cells obtained from rat aortic rings against oxidative insult (1 µM) and lowers serum cholesterol in ovariectomized rodents (ED_{50} = 0.2 mg/kg).[2,1] Formulations containing raloxifene have been shown to reduce bone resorption and promote bone formation in post-menopausal women.[3]

References

1. Black, L.J., Sato, M., Rowley, E.R., *et al.* Raloxifene (LY139481 HCl) prevents bone loss and reduces serum cholesterol without causing uterine hypertrophy in ovariectomized rats. *J. Clin. Invest.* **93(1)**, 63-69 (1994).
2. Wong, C.M., Yung, L.M., Leung, F.P., *et al.* Raloxifene protects endothelial cell function against oxidative stress. *Br. J. Pharmac.* **155(3)**, 326-334 (2008).
3. Özmen, B., Kirmaz, C., Aydin, K., *et al.* Influence of the selective oestrogen receptor modulator (raloxifene hydrochloride) on IL-6, TNF-α, TGF-ß1 and bone turnover markers in the treatment of postmenopausal osteoporosis. *Eur. Cyto. Netw.* **18(3)**, 148-153 (2007).

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