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**Product Data Sheet**

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Product Name: Revexepride

Cat. No.: GC30681

**Chemical Properties**

Cas. No. 219984-49-3

SMILES O=C(C1=C(OC(C)(C)C2)C2=C(N)C(Cl)=C1)NC[C@H]3[C@H](O)CN(CCCOC)CC3Formula C<sub>21</sub>H<sub>32</sub>ClN<sub>3</sub>O<sub>4</sub>

M.Wt 425.95

Solubility DMSO : ≥ 100 mg/mL (234.77 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Revexepride is a highly selective 5-HT<sub>4</sub> receptor agonist, and a potential inducer of CYP3A4 enzyme, used for the treatment of gastroesophageal reflux disease.

The human CYP isoenzymes are involved in the metabolism of revexepride, which is mainly metabolized in vitro in humans by CYP3A4 (99.9%) with a minor contribution of CYP2D6 (0.1%). Revexepride exhibits direct inhibition of human CYP3A4 in vitro with IC<sub>50</sub> values of 16-49 μM[1].

[1]. David Pierce, et al. A phase 1 randomized study evaluating the effect of omeprazole on the pharmacokinetics of a novel 5-hydroxytryptamine receptor 4 agonist, revexepride (SSP-002358), in healthy adults. Drug Des Devel Ther. 2015; 9: 1257-1268.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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