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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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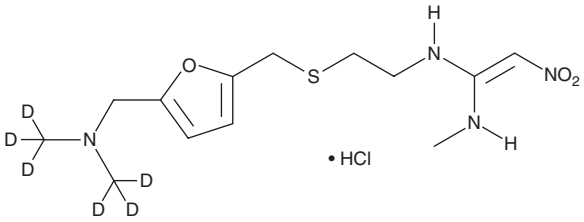
PRODUCT INFORMATION

Ranitidine-d_6 (hydrochloride)

Item No. 22583

CAS Registry No.: 1185238-09-8
Formal Name: (E)-N-(2-(((5-((*bis*(methyl-d_3)amino)methyl) furan-2-yl)methyl)thio)ethyl)-N'-methyl-2-nitroethene-1,1-diamine, monohydrochloride
MF: $C_{13}H_{16}D_6N_4O_3S \bullet HCl$
FW: 356.9
Chemical Purity: ≥95% (Ranitidine)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_6); ≤1% d_0
UV/Vis.: λ_{max}: 231, 326 nm
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

Ranitidine-d_6 is intended for use as an internal standard for the quantification of ranitidine (Item No. 16939) 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).

Ranitidine-d_6 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the ranitidine-d_6 (hydrochloride) in the solvent of choice. Ranitidine-d_6 (hydrochloride) is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 1 mg/ml.

Description

Ranitidine is a histamine H_2 receptor antagonist.[1] It reverses histamine-induced relaxation of isolated rat uterine horn (pA_2 = 6.9) as well as histamine-induced increases in contraction frequency in isolated guinea pig right atrium (pA_2 = 7.2). Ranitidine (0.03-3 mg/kg, i.v.) inhibits histamine-and pentagastrin-induced gastric acid secretion in a dose-dependent manner in anesthetized rats. Formulations containing ranitidine have been used in the treatment and prevention of heartburn and gastroesophageal reflux disease (GERD).

Reference

1. Daly, M.J., Humphray, J.M., and Stables, R. Some *in vitro* and *in vivo* actions of the new histamine H_2-receptor antagonist, ranitidine. *Br. J. Pharmacol.* **72(1)**, 49-54 (1981).

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