Product Specification Sheet

Product Name: Aliskiren
Catalog Number: C2547

Technical information:
Chemical Formula: $C_{30}H_{53}N_3O_6$
CAS #: 173334-57-1, 173334-58-2
Molecular Weight: 551.76
Purity: > 98%
Appearance: White solid
Solubility: Soluble in DMSO up to 22 mM
Chemical Name: (S)-25,45,55,75)-5-Amino-N-(2-carbamoyl-2-methylpropyl)-4-hydroxy-2-isopropyl-7-[4-methoxy-3-[3-methoxypropoxy]benzyl]-8-methylnonanamide
Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:
• To make 10 mM stock solution, add 0.181mL of DMSO for each mg of Aliskiren
• For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:
Aliskiren is an orally-available, nonpeptide piperidine-based inhibitor renin (IC50 0.6 nM) for the treatment of hypertension. [1] Despite it's 2.5% bioavailability in humans, the absorbed aliskiren is slowly cleared such that the drug can accumulate to therapeutic levels within several doses.

Aliskiren is highly selective for the Renin-Angiotensin System (RAS) and therefore does not interfere with bradykinin metabolism; therefore side effects often associated with ACE inhibitors are not likely to occur with aliskiren. [2] Aliskiren is effective in reducing blood pressure and is well tolerated, and has shown promising target organ protection in animal models and clinical trials. [3]

Reference:

To reorder: [http://www.cellagentech.com/Aliskiren/](http://www.cellagentech.com/Aliskiren/)
For Technical Support: [technical@cellagentech.com](mailto:technical@cellagentech.com)

For research use only, not for clinical or diagnostic use.