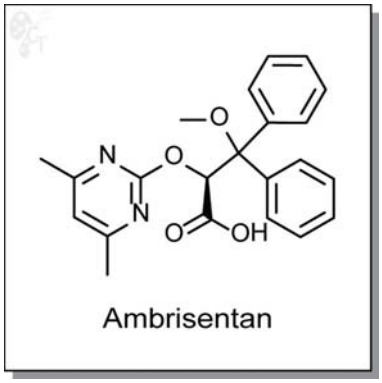
Product Specification Sheet

Product Name: Ambrisentan

Catalog Number: C2627



Ambrisentan

Technical information:

Chemical Formula:	$C_{22}H_{22}N_2O_4$
CAS #:	177036-94-1
Molecular Weight:	378.42
Purity:	> 98%
Appearance:	white solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	(S)-2-((4,6-dimethylpyrimidin-2-yl)oxy)-3-methoxy-3,3-diphenylpropanoic acid
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 0.264mL of DMSO for each mg of Ambrisentan.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

Ambrisentan is a propanoic acid–based, orally-available, endothelin receptor type A-receptor antagonist for the once-daily treatment of pulmonary arterial hypertension (PAH). It has >4000-fold selectivity for the type A receptor over type B receptor. Studies indicate that Ambrisentan has a low potential for drug interactions and at therapeutic concentrations does not inhibit UDP-glucuronosyltransferases or CYPs, or induce MDR protein 2 or P-gp. (1)

In contrast with other similar therapies, Ambrisentan has been shown to have a lower potential for increase of serum-level concentrations of aminotransferases. (2)

Reference:

1. Frampton, JE., Ambrisentan. Am. J. Cardiovasc. Drugs 2011, 11(4), 215-226. Pubmed ID: 21623643

2. Galie et al., Results of the Ambrisentan in Pulmonary Arterial Hypertension, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Efficacy (ARIES) Study 1 and 2. Circulation, 2008, 117, 3010-3019. Pubmed ID: 18506008

To reorder: http://www.cellagentech.com/Ambrisentan/

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.