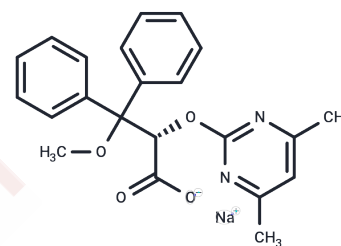


Ambrisentan sodium

Chemical Properties

CAS No. :	1386915-48-5
Formula:	C ₂₂ H ₂₁ N ₂ NaO ₄
Molecular Weight:	400.41
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ambrosentan (BSF 208075) sodium is a selective and oral effective antagonist of ET type A receptor (ETAR).
Targets(IC50)	Endothelin Receptor,Others
In vitro	Ambrisentan sodium, an endothelin type A receptor antagonist [1], promotes Nrf2 activation. It mitigates the increase in endothelial permeability observed in BMEC monolayers after 24 hours of hypoxia, compared to a vehicle control. However, this protective effect of Ambrisentan is negated when BMEC are pre-treated with siRNA targeting Nrf2 [2].
In vivo	In the study, Ambrisentan treatment resulted in a notably lower hepatic hydroxyproline content compared to the control (18.0 µg/g±6.1 µg/g vs 33.9 µg/g±13.5 µg/g liver, P=0.014). Furthermore, assessments of hepatic fibrosis using Sirius red staining and the evaluation of areas positive for α-smooth muscle actin—a marker of hepatic stellate cell activation—revealed significant reductions in the Ambrisentan group (0.46%±0.18% vs 1.11%±0.28%, P=0.0003; and 0.12%±0.08% vs 0.25%±0.11%, P=0.047, respectively). Additionally, hepatic RNA expression levels of procollagen-1 and tissue inhibitor of metalloproteinase-1 (TIMP-1) were reduced by 60% and 45%, respectively, in the Ambrisentan-treated group. It's important to note that Ambrisentan sodium's effect on inflammation, steatosis, and endothelin-related mRNA expression in the liver was not significant between groups. The findings suggest that Ambrisentan sodium mitigates hepatic fibrosis progression through the inhibition of hepatic stellate cell activation and a decrease in procollagen-1 and TIMP-1 gene expression, without influencing inflammation or steatosis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4974 mL	12.4872 mL	24.9744 mL
5 mM	0.4995 mL	2.4974 mL	4.9949 mL
10 mM	0.2497 mL	1.2487 mL	2.4974 mL
50 mM	0.0499 mL	0.2497 mL	0.4995 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481