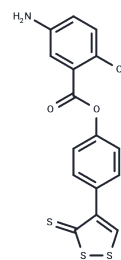


ATB 429

Chemical Properties

CAS No. : 915798-75-3
 Formula: C₁₆H₁₁NO₃S₃
 Molecular Weight: 361.46
 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	ATB-429 is a mesalazine derivative capable of releasing H ₂ S, demonstrating significant analgesic and anti-inflammatory effects in an irritable bowel syndrome (IBS) model. By releasing hydrogen sulfide (H ₂ S), ATB-429 modulates hypersensitivity induced by colorectal distension in healthy and post-colitis rats. It alleviates abdominal withdrawal responses and inhibits spinal c-Fos mRNA expression, indicating its potential to relieve pain associated with gastrointestinal inflammation. Furthermore, ATB-429 downregulates mRNA expression of colonic cyclooxygenase-2 (COX-2) and IL-1 β , an effect not observed with mesalazine alone. The mechanism involves ATP-sensitive K ⁺ (KATP) channels, evidenced by the reversal of ATB-429's effects with glibenclamide. These findings suggest that ATB-429 may offer therapeutic benefits for treating inflammatory pain-related bowel conditions.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7666 mL	13.8328 mL	27.6656 mL
5 mM	0.5533 mL	2.7666 mL	5.5331 mL
10 mM	0.2767 mL	1.3833 mL	2.7666 mL
50 mM	0.0553 mL	0.2767 mL	0.5533 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