

Flumequine Polyclonal Antibody

Catalog Number PA1-75152

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Chemical
Host/Isotope	Sheep / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	ELISA (ELISA)	5-10 µg/mL
Immunogen	Fumequine-BTG	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Purification	purified		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

PA1-75152 specifically detects Flumequine. PA1-75152 has been successfully used in ELISA applications. The PA1-75152 immunogen is Fumequine-BTG.

Background/Target Information

Flumequine is a 9-fluoro-6, 7-dihydro-5-methyl-1-oxo-1H, 5H-benzo[*ij*]quinolizine-2-carboxylic acid. It is a white powder, odorless, flavorless, insoluble in water but soluble in organic solvent. Flumequine is a synthetic chemotherapeutic antibiotic of the fluoroquinolone drug class used to treat bacterial infections. It is a first-generation fluoroquinolone antibacterial that has been removed from clinical use and is no longer being marketed. It kills bacteria by interfering with the enzymes that cause DNA to unwind and duplicate. Flumequine was used in veterinarian medicine for the treatment of enteric infections (all infections of the intestinal tract), as well as to treat cattle, swine, chickens, and fish, but only in a limited number of countries. It was occasionally used in France (and a few other European Countries) to treat urinary tract infections under the trade name Apurone. However this was a limited indication because only minimal serum levels were achieved. The first quinolone used was nalidixic acid (was marketed in many countries as Negram) followed by the fluoroquinolone flumequine. The first-generation fluoroquinolone agents, such as flumequine, had poor distribution into the body tissues and limited activity. As such they were used mainly for treatment of urinary tract infections. Flumequine (benzo quinolizine) was first patented in 1973, (German Patent) by Rikker Labs. Flumequine is a known antimicrobial compound described and claimed in U. S. Pat. No. 3, 896, 131 (Example 3), July 22, 1975. Flumequine is the first quinolone compound with a fluorine atom at the C6-position of the related quinolone basic molecular structure. Even though this was the first fluoroquinolone, it is oftentimes overlooked when classifying the drugs within this class by generations and excluded from such a list. There continues to be considerable debate as to whether or not this DNA damage is to be considered one of the mechanisms of action concerning the severe adverse reactions experienced by some patients following fluoroquinolone therapy. [National Center for Biotechnology Information. PubChem Compound Database; CID=3374].

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.