



Mouse Anti-Citreoviridin monoclonal antibody, clone CIT (CABT-L4608)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The antibody recognizes the conjugated form of the small molecule. Antibody specificity was performed by using an ELISA test by competition experiments
Immunogen	Synthetic Citreoviridin conjugated to a carrier protein
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	CIT
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, LFIA
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	PBS only
Preservative	None
Storage	Store -20°C for long term.

BACKGROUND

Introduction

Citreoviridin is a mycotoxin isolated from several *Penicillium* species that has been shown to inhibit the mitochondrial ATP synthetase system. It inhibits soluble ATPase ($K_D = 4.1 \mu\text{M}$), ADP-stimulated respiration in isolated rat liver mitochondria ($K_D = 0.15 \mu\text{M}$), and ATP-driven reduction of NAD^+ by succinate ($K_D = 2 \mu\text{M}$). Citreoviridin has been used to target ectopic ATPase activity in cancer cells in order to modulate the metabolic activity associated with tumorigenesis.

Keywords

Citreoviridin; CIT; 25425-12-1; 2,5-anhydro-1,6-dideoxy-2-C-[(8-(4-methoxy-5-methyl-2-oxo-2H-pyran-6-yl)-2-methyl-1E,3E,5E,7E-octatetraen-1-yl)-4-C-methyl-D-iditol]
