Product Data Sheet

Product Name: Lesofavumab
Cat. No.: GC74569

Chemical Properties

Cas. No.	1807960-57-1		
Formula		M.Wt	
Solubility		Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Lesofavumab

Background

Lesofavumab (MHAB5553A) is a human IgG1κ anti-influenza B virus antibody.

Lesofavumab (MHAB5553A) binds to a conserved epitope in the vestigial esterase domain of hemagglutinin (HA), a major immunodominant surface glycoprotein on influenza B viruses, and blocks HA-mediated membrane fusion in the endosome[1].Lesofavumab (46B8) is able to neutralize

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all eleven IBV strains tested that were associated with human infections spanning >70 years, with IC50 values ranging from 0.58 to 0.95 nM[2].Lesofavumab (46B8; 0-100 ng/mL) blocks membrane fusion and induces antibody-dependent cellular cytotoxicity (ADCC) in vitro[2].

Lesofavumab (46B8; 15 mg/kg; i.v.; single dose) is able to protect mice against lethal challenge of the mutant influenza B virus[2].

References:
[1]. Rao GK, et al. In Vivo Assessment of Antibody-Dependent Enhancement of Influenza B Infection. Toxicol Sci. 2019 Jun 1;169(2):409-421.
[2]. Chai N, et al. A broadly protective therapeutic antibody against influenza B virus with two mechanisms of action. Nat Commun. 2017 Jan 19;8:14234.