

MCLA hydrochloride

Chemical Properties

CAS No. :	128322-44-1
Formula:	C ₁₄ H ₁₄ ClN ₃ O ₂
Molecular Weight:	291.73
Storage:	Keep away from moisture,Keep away from direct sunlight, Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	MCLA hydrochloride is a monoclonal antibody that binds EGFR and LGR5 with Kd values of 0.22 nM and 0.86 nM, respectively. MCLA hydrochloride induces EGFR signaling blockade and receptor degradation in LGR5-positive cancer cells. MCLA hydrochloride is utilized in oncology research involving solid tumors, including head and neck squamous cell carcinoma (HNSCC) and metastatic colorectal cancer (CRC), and serves as a molecular tool for investigating EGFR- and LGR5-associated signaling pathways and tumor biology.
Targets(IC50)	EGFR
In vitro	The non-specific luminescence remains stable for 10 minutes post-addition of MCLA hydrochloride and is not significantly affected by SOD. The MCLA method is 4.5 times more sensitive than the CLA method.

Solubility Information

Solubility	DMSO: 8 mg/mL (27.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4278 mL	17.1391 mL	34.2783 mL
5 mM	0.6856 mL	3.4278 mL	6.8557 mL
10 mM	0.3428 mL	1.7139 mL	3.4278 mL
50 mM	0.0686 mL	0.3428 mL	0.6856 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.

Reference

Kimura H, et al. Highly sensitive and reliable chemiluminescence method for the assay of superoxide dismutase in human erythrocytes. FEBS Lett. 1988 Nov 7;239(2):347-50.

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