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Lieferung & Zahlungsart

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Zuschläge

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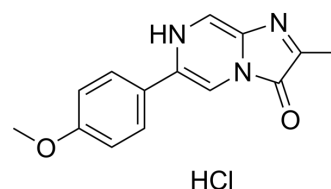
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MCLA hydrochloride

Cat. No.:	HY-W013275
CAS No.:	128322-44-1
Molecular Formula:	C ₁₄ H ₁₄ ClN ₃ O ₂
Molecular Weight:	291.73
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (34.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MCLA hydrochloride is a chemiluminescent reagent which can be used to quantify aqueous concentrations of superoxide.

In Vitro

The non-specific luminescence remains almost constant for 10 min after the addition of MCLA hydrochloride (MCLA) and is not significantly influenced by SOD. The MCLA hydrochloride method is, however, 4.5-times more sensitive than the CLA method^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay ^[1]

The standard reaction mixture contains 1×10⁻⁷ M MCLA hydrochloride (MCLA), 5×10⁻⁵ M hypoxanthine, XOD (6.5 U), SOD (0.2 to 20 ng/mL) or none, and 50 mM Tris-HCl buffer containing 0.1 mM EDTA at pH 7.8, in a total volume of 3.0 mL. Chemiluminescence measurement is initiated by the addition of MCLA hydrochloride to the standard incubation mixture excluding XOD, continued for 4 min without additive and for an additional 4 min after the addition of XOD. Chemiluminescence is measured using a luminescence reader at 25°C^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Redox Biol. 2020 May;32:101466.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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