N-Methyl-DL-valine hydrochloride

Cat. No.: HY-W142140A

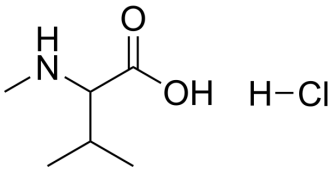
Molecular Formula: $C_6H_{14}ClNO_2$

Molecular Weight: 167.63

Target: Others

Pathway: Others

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (745.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.9655 mL	29.8276 mL	59.6552 mL
	5 mM	1.1931 mL	5.9655 mL	11.9310 mL
	10 mM	0.5966 mL	2.9828 mL	5.9655 mL

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

BIOLOGICAL ACTIVITY

Description

N-Methyl-DL-valine (N-Methylvaline) hydrochloride is a valine derivant, is metabolized to cysteine, alanine, tyrosine, tryptophan, citric acid, and succinic acid in the sprout. N-Methyl-DL-valine hydrochloride involves in the modification of monomethyl auristatin F (MMAF), an anti-tubulin agent, makes it hydrophobic functionalization and increases cell permeability[1][2].

REFERENCES

[1]. M. Pasteels, et al. Uptake and metabolism of [14C]rinderine and [14C]retronecine in leaf-beetles of the genus Platyphora and alkaloid accumulation in the exocrine defensive secretions. Chemoecology. 2003;13:55–62.

[2]. Philip N Moquist, et al. Novel Auristatins with High Bystander and Cytotoxic Activities in Drug Efflux–positive Tumor Models. Mol Cancer Ther.2021;20(2): 320–328.

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

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