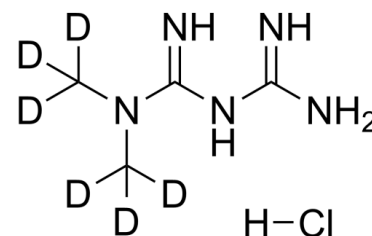


Data Sheet

Product Name:	Metformin-d ₆ (hydrochloride)
Cat. No.:	CS-0033092
CAS No.:	1185166-01-1
Molecular Formula:	C ₄ H ₆ D ₆ ClN ₅
Molecular Weight:	171.66
Target:	AMPK; Autophagy; Mitophagy
Pathway:	Autophagy; Epigenetics; PI3K/Akt/mTOR
Solubility:	H ₂ O : 50 mg/mL (291.27 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Metformin D6 hydrochloride is a deuterium labeled Metformin hydrochloride. Metformin hydrochloride inhibits the **mitochondrial respiratory chain** in the liver, leading to activation of **AMPK**, enhancing insulin sensitivity for type 2 diabetes research. Metformin hydrochloride triggers **autophagy**^[1].

References:

[1]. Soraya H, et al. Acute treatment with metformin improves cardiac function following NSC 37745 induced myocardial infarction in rats. Pharmacol Rep. 2012;64(6):1476-84.

CAIndexNames:

Imidodicarbonimidic diamide, N,N-di(methyl-d3)-, hydrochloride (1:1)

SMILES:

NC(NC(N(C([2H])([2H])[2H])C([2H])([2H])[2H])=N)=N.[H]Cl

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

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