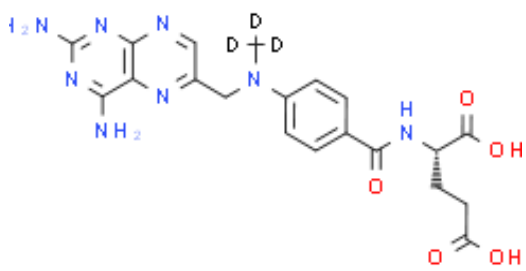


Product Data Sheet

Cas No.:	432545-63-6	Cat. No:	PL04063
Product Name:	Methotrexate-d3		
Product synonym:	甲氨蝶呤-d3;[2H3] - 甲氨蝶呤标准品;N-[4-[[[(2,4-二氨基-6-蝶啶基)甲基]甲基-D3-氨基]苯甲酰基]-L-谷氨酸;氨甲喋呤-D3标准品;甲氨蝶呤D3;甲氨蝶呤 d3		
Chemical name:	Methotrexate-d3		
MF:	C20H22N8O5	FW:	454.43928
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	OC(CCC(NC(C1C=CC(N(C([2H]))([2H])[2H])CC2=CN=C3N=C(N=C(N)C3=N2)N)=CC=1)=O)C(=O)O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Methotrexate-d₃ 是 Methotrexate 的氘代物。Methotrexate (Amethopterin) 是一种抗代谢 (antimetabolite) 和抗叶酸剂 (antifolate)，可抑制二氢叶酸还原酶，从而防止叶酸转化为四氢叶酸并抑制 DNA 合成。Methotrexate 也是一种免疫抑制剂和抗肿瘤剂，用于类风湿关节炎和研究多种癌症 (如急性淋巴细胞白血病)。

生物活性	Methotrexate-d 3 (Amethopterin-d3) is the deuterium labeled Methotrexate. Methotrexate (Amethopterin), an antimetabolite and antifolate agent, inhibits the enzyme dihydrofolate reductase, thereby preventing the conversion of folic acid into tetrahydrofolate, and inhibiting DNA synthesis. Methotrexate, also an immunosuppressant and antineoplastic agent, is used for the research of rheumatoid arthritis and a number of different cancers (such as acute lymphoblastic leukemia)[1][2][3].
体外研究(In Vitro)	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years; In solvent -80°C 6 months