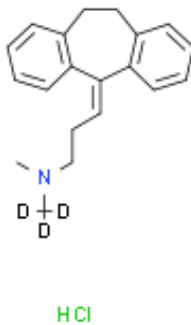


Product Data Sheet

Cas No.:	342611-00-1	Cat. No:	PL06881
Product Name:	Amitriptyline-d3 hydrochloride		
Product synonym:	阿米替林-D3 HCL;阿米替林-d3hydrochloride（N-甲基-d）;二氯乙醛,水合物;盐酸阿米替林-d3;盐酸阿米替林-D3氘代;盐酸盐阿米替林-D3 标准品;阿米替林,盐酸盐D3 标准品		
Chemical name:	Amitriptyline-d3 hydrochloride		
MF:	C20H23N.HCL	FW:	313.86426
Purity:	-	Batch No.:	-
Storage:			
Structural formula:	<div></div>		
λmax:	-	Formulation:	-
Solubility :			
SMILES :	C([2H])([2H])([2H])N(C)CCC=C1C2=CC=CC=C2CCC3=CC=CC=C31.Cl		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Amitriptyline-d3 hydrochloride 是 Amitriptyline (hydrochloride) 的氘代物。Amitriptyline hydrochloride 是一种血清素再摄取转运体 (SERT) 和去甲肾上腺素再摄取转运体 (NET) 抑制剂, 对人的 SERT 和 NET 作用的 K_i 值分别为 3.45 nM 和 13.3 nM。Amitriptyline hydrochloride 还与多巴胺再摄取转运体 (DAT) 结合, 其 K_i 为 2.58 μM。Amitriptyline hydrochloride 也抑制肾上腺素能受体 (adrenergic receptor)、毒蕈碱受体 (muscarinic receptor)、组胺受体 (histamine receptor)、5-羟色胺受体 (5-HT receptor)。Amitriptyline hydrochloride 是一种具有强神经营养活性的 TrkA 和 α₁ hre

生物活性

Amitriptyline-d3 hydrochloride is the deuterium labeled Amitriptyline (hydrochloride). Amitriptyline hydrochloride is an inhibitor of serotonin reuptake transporter (SERT) and noradrenaline reuptake transporter (NET), with K_is of 3.45 nM and 13.3 nM for human SERT and NET, respectively. Amitriptyline hydrochloride also weakly binds to dopamine reuptake transporter (DAT) with a K_i of 2.58 μM. Amitriptyline hydrochloride also inhibits adrenergic, muscarinic, histamine and 5-HT receptors. Amitriptyline hydrochloride is a TrkA and TrkB receptors agonist with potent neurotrophic activity. Amitriptyline hydrochloride has antidepressant activity.

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	Please store the product under the recommended conditions in the Certificate of Analysis.