

## Sarpogrelate-D3 hydrochloride

### Chemical Properties

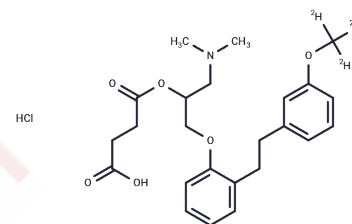
CAS No. :

Formula: C<sub>24</sub>H<sub>29</sub>D<sub>3</sub>ClNO<sub>6</sub>

Molecular Weight: 468.99

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

#### Description

Sarpogrelate-D3 hydrochloride is a deuterated compound of Sarpogrelate Hydrochloride (T4978). Sarpogrelate hydrochloride has a CAS number of 135159-51-2. Sarpogrelate (MCI-9042) hydrochloride, a selective 5-HT<sub>2</sub> antagonist, has been widely used as an anti-platelet agent for the treatment of PAD. Target: 5-HT<sub>2</sub> Receptor Sarpogrelate is a drug which acts as an antagonist at the 5HT<sub>2A</sub> and 5-HT<sub>2B</sub> receptors. Sarpogrelate was shown to have the same affinity as ritanserin for 5-HT<sub>2A</sub> receptors, with a K<sub>i</sub> value of 8.39 nM. Sarpogrelate lacked prominent 5-HT<sub>1</sub>-like, 5-HT<sub>3</sub>, beta, H<sub>1</sub>, H<sub>2</sub> and M<sub>3</sub> antagonist activity and weakly blocked alpha 1-adrenoceptors (pK<sub>B</sub> = 6.30). (S)-M-1 showed weak affinity for 5-HT<sub>1</sub>-like receptors (pK<sub>B</sub> = 6.30), alpha 1- (pK<sub>B</sub> = 6.80) and beta- (pK<sub>B</sub> = 6.54) adrenoceptors, while (R)-M-1 was a weak antagonist at histamine H<sub>1</sub> receptors (pK<sub>B</sub> = 6.49). After 12 weeks of sarpogrelate administration, FBF and LBF responses during RH showed significant increases from 13.2 +/- 1.7 to 18.1 +/- 2.2 mL/min per 100 mL tissue (P < 0.01) and from 8.2 +/- 0.9 to 14.2 +/- 2.1 mL/min per 100 mL tissue (P < 0.05), respectively. Sarpogrelate-induced augmentation of FBF and LBF responses to RH was maintained at 24 weeks. Long-term oral administration of sarpogrelate improves vascular function in patients with PAD.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1322 mL	10.6612 mL	21.3224 mL
5 mM	0.4264 mL	2.1322 mL	4.2645 mL
10 mM	0.2132 mL	1.0661 mL	2.1322 mL
50 mM	0.0426 mL	0.2132 mL	0.4264 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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