

Catalog	Unit
TBI2045-20MG	20mg
TBI2045-100MG	100mg

Product Details

Formal Name: 5-O-[2-(4-Benzhydrylpiperazin-1-yl)ethyl] 3-O-methyl-2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate dihydrochloride

Alternate Names: CV-4093·2HCl; Franidipine·2HCl

Molecular Formula: C₃₅H₃₈N₄O₆·2HCl

Formula Weight: 683.60

CAS Number: 89226-75-5

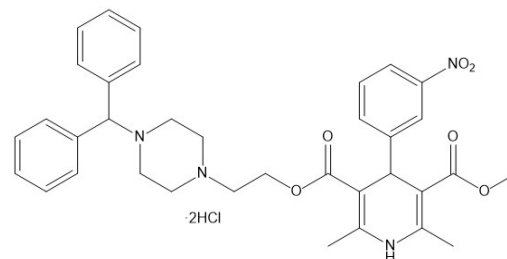
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: RT

Stability: ≥ 1 year.



Applications

L-type calcium channel blocker

Functions

Manidipine is a clinically useful antihypertensive. It is an inhibitor of L- and T-type calcium channels with high selectivity for vasculature. Manidipine has recently been found to be an inhibitor (IC₅₀ = 4.8 μM) of the SARS-CoV-2 main protease, 3CLpro. It also acts as an early entry inhibitor of human cytomegalovirus (EC₅₀ = 3.57 μM) via inhibition of the Immediate-Early 2 (IE2) protein.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.