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Product Datasheet

Boceprevir
FBM-10-5087

Artikelname	Boceprevir
Artikelnummer	FBM-10-5087
Hersteller Artikelnummer	10-5087
Alternativnummer	FBM-10-5087-5MG,FBM-10-5087-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Antiviral, SARS-CoV-2 Mpro inhibitor...
Molekulargewicht	519.68
Reinheit	98% by TLC NMR (Conforms)
Formulierung	White or off-white solid
CAS Nummer	[394730-60-0]
Formel	C27H45N5O5
Anwendungsbeschreibung	Boceprevir (394730-60-0) directly inhibits Hepatitis C virus (HCV) NS3 protease (overall binding constant for formation of covalent adduct, $K_i^* = 14$ nM, initial inhibition constant $K_i = 7.8$ μM). This blocks NS3 autoactivation, and subsequent cleavage and maturation of other viral proteins necessary for replisome assembly. This reversible, slow-binding ketoamide also restores host interferon signaling obstructed by HCV, thus reactivating the immune response¹. Recently, it was also found to inhibit the key SARS-CoV-2 protease, Mpro (3CLpro) in vitro ($K_i = 1.18$ μM) and in cells ($EC_{50} = 1.9$ μM, virus-induced cytopathic effects (CPE)