

Open Peer Review on Qeios

## **Ombitasvir**

National Cancer Institute

## Source

National Cancer Institute. <u>Ombitasvir</u>. NCI Thesaurus. Code C123878.

An orally available inhibitor of the hepatitis C virus (HCV) non-structural protein 5A (NS5A) replication complex, with potential activity against HCV. Upon oral administration and after intracellular uptake, ombitasvir binds to and blocks the activity of the NS5A protein. This results in the disruption of the viral RNA replication complex, blockage of HCV RNA production, and inhibition of viral replication. NS5A, a zinc-binding and proline-rich hydrophilic phosphoprotein, plays a crucial role in HCV RNA replication. HCV is a small, enveloped, single-stranded RNA virus belonging to the Flaviviridae family; HCV infection is associated with the development of hepatocellular carcinoma (HCC).

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