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Elbasvir/Grazoprevir

National Cancer Institute

Source

National Cancer Institute. *Elbasvir/Grazoprevir*. NCI Thesaurus. Code C159973.

A fixed dose combination of elbasvir, an inhibitor of the hepatitis C virus (HCV) non-structural protein 5A (NS5A), and grazoprevir, a second-generation inhibitor of the HCV NS3/4A serine protease, with activity against certain HCV genotypes. Upon oral administration of elbasvir/grazoprevir, elbasvir inhibits the activity of the NS5A protein, leading to disruption of the viral RNA replication complex, blockage of HCV RNA production, and inhibition of viral replication. Grazoprevir inhibits the NS3/4A serine protease enzyme, thereby disrupting the cleavage of the virally encoded polyprotein into mature proteins and preventing the formation of the viral replication complex. HCV is a small, enveloped, single-stranded RNA virus belonging to the Flaviviridae family; HCV infection is associated with the development of certain cancers.